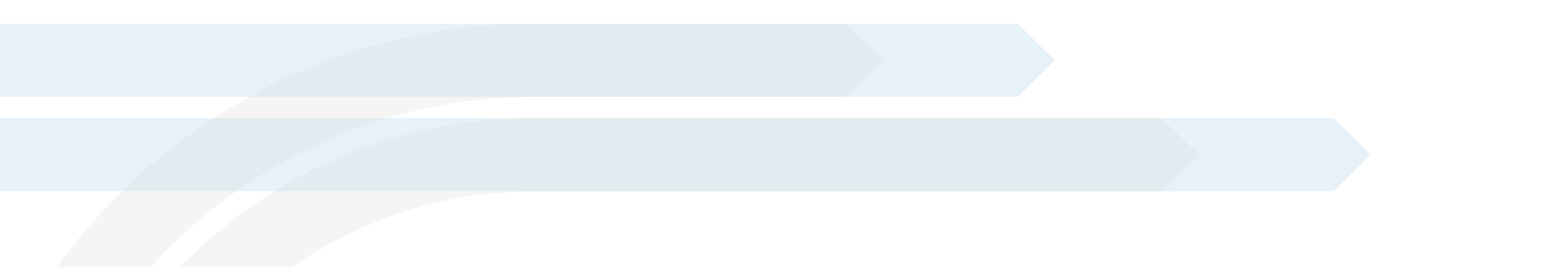
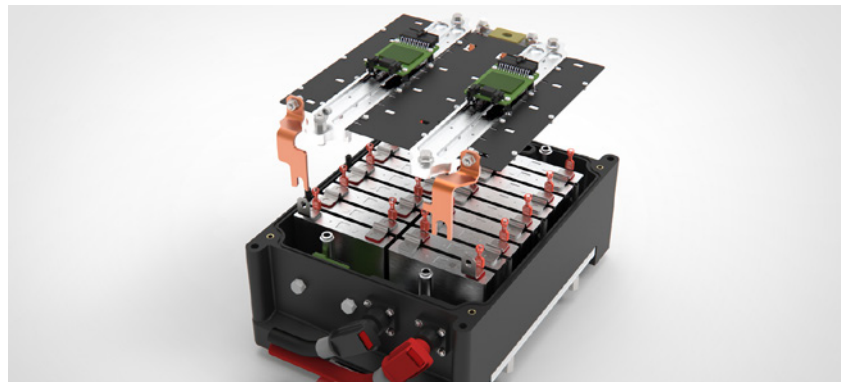
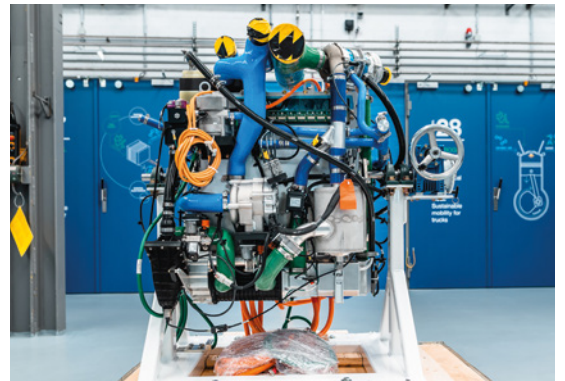
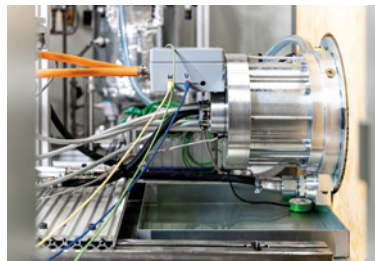


# EV SUPPLY CHAIN DIRECTORY



# ► Foreword

The automotive world is undergoing a transformation – and the UK’s supply chain is poised to play a pivotal role.

Britain already has a world leading market ambition, to end the sale of non zero-emission cars and vans in 2035, and we can – and must – match that with a manufacturing ambition to build finished vehicles and components for the electrified age.

The scale of the prize is monumental. UK Automotive turns over £67 billion a year, and Britain’s automotive manufacturing industry is one of the most diverse in the world, producing everything from cars and vans, to buses, trucks, high performance sports cars and luxury vehicles. Underpinning that production is a vast, skilled supply chain that is eagerly embracing the zero emission transition and is primed and ready to go with the right investment, backed by Britain’s low carbon energy mix and outstanding reputation for R&D. The UK is truly a workshop for the world and ready to build the components and vehicles needed for a net zero world.

Britain is very well placed to capitalise in this space - with a number of excellent assets, a thriving ecosystem, and a rich heritage. At SMMT, we’re here to support. We want to help companies looking to establish themselves in this new world and parts supply landscape.

SMMT works tirelessly to support the sector and engages with government to ensure the automotive sector can deliver on its full potential – calling for support and a more internationally competitive landscape, with a playing field that is more level, to allow the UK’s excellent companies involved in the design, development and manufacture of EV components, to thrive and grow.

SMMT will be there to support. Critical to success in this space will be the UK’s vehicle ecosystem. Through collaboration and partnerships, businesses can work together to maximise the collective opportunity. They can grow together by working together to provide better products and solutions. This is a competitive advantage the UK industry can absolutely develop independent of external factors. And SMMT can be the place this happens.

This directory provides an excellent snapshot of where this community and ecosystem currently is. We plan to build on this, pulling together even more companies from across the landscape to collaborate and explore avenues and opportunities.

And we welcome you to be a part of it.

Yours sincerely,

Yung Tran

Director of Member Services and Business Development  
SMMT



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# ► Welcome to **our** EV Supply Chain Directory

## Transition and opportunity

The industrial transition associated with vehicle electrification is gathering pace. With it will come a significant opportunity for component manufacturers and the underlying supply chain as a new landscape is established.

A whole new set of vehicle product types are being designed, developed and manufactured in a wide variety of forms and powertrains, from small passenger cars to large commercial vehicles, to deliver against a vast array of future electrified applications.

Each will need its own set of specialised electric vehicle specific components ranging from cells and battery packs to E-motors and transmissions, inverters, and control systems through to fuel cells stacks and hydrogen storage. Each in turn represents an opportunity for the UK supply base to design, develop and manufacture the next generation of high value electric vehicle componentry for a new global market.

The UK is well placed to capitalise and be a part of the foundation of these supply chains. It has a rich heritage in automotive research and development, engineering and design and a world leading supportive infrastructure across both the academic space and government backed institutions such as the Advanced Propulsion Centre, Faraday Institution and the Catapult networks.

The UK also has an existing and competitive manufacturing companies in many of the newer EV technology areas that are investing here in the UK, creating jobs, generating value and supplying high value products into UK finished vehicles as well as exporting overseas.

## The EV Supply Chain Directory

This EV Directory provides a snapshot of the UK's capability across the new technology areas which will be critical for the vehicle electrification transition. It is a showcase of what the UK is already doing in terms of EV component design, development and manufacture.

The purpose of this is to demonstrate the UK's breadth of capability in this new technology space. It will also act as a guide for companies looking to source partners or components in the future.

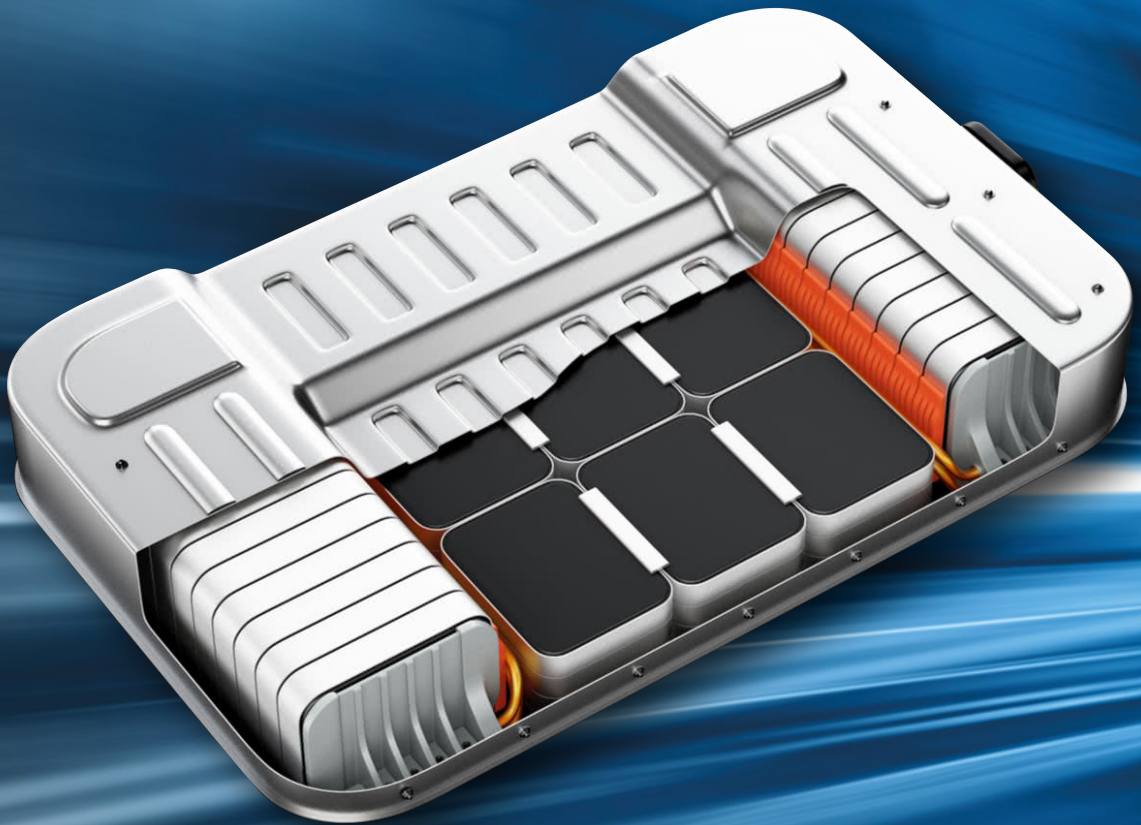
It is meant to be a living document as industry continues to invest here in the UK and companies emerge with new and improved capabilities. If you would like to be included moving forward, please email [memberservices@smmt.co.uk](mailto:memberservices@smmt.co.uk). SMMT will aim to move this publication to an online format later in 2023 to ensure it is as 'live' a resource as possible.

## Broader EV Supply Chain support

SMMT supports UK companies in playing their part and becoming part of the foundations across the design, development and manufacture of the next gen of these high value products and their associated supply chains.

This Directory forms part of a wide programme of activity aimed at supporting and promoting UK companies involved in the design, development and manufacture of EV specific components. If you would like to find out more about this, please email [memberservices@smmt.co.uk](mailto:memberservices@smmt.co.uk)

## ▶ Battery systems




## ▶ Battery components


### Adhesives

#### Hylomar



Cale Lane  
Wigan, WN21JT

 +44 (0)1942 617 001

 [info@hylomar.co.uk](mailto:info@hylomar.co.uk)

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

The HYLOMAR logo, consisting of the word "HYLOMAR" in a bold, blue, sans-serif font with a registered trademark symbol (®) to the upper right.

#### Company profile

Hylomar Limited manufactures a wide range of high-performance sealants and adhesives used by leading automotive OEM's. Hylomar non setting sealants seal against many types of fluids and stop joint corrosion whilst allowing for easy disassembly of parts for service or recycling. IATF 16949 / ISO9001 certified.


#### Principal product


Non setting jointing compound for sealing electric vehicle battery packs and electric motors

# Powdertech Surface Science



27 Murdock Road  
Bicester, OX26 4PP

 +44 (0)1869 248 218

 office@powdertech.co.uk

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



## Company profile

We are the UK's leading outsourced provider of TiZr aluminium passivation services for adhesively bonded or welded assemblies. 20 years of proven track record for prototype through to full production volumes with in-house XRF, Instron and testing equipment.


### Principal product


Passivation and cleaning of aluminium components

# Tantec



40A Crossgate Road, Park Farm  
Industrial Estate Redditch  
Worcestershire  
B98 7SN

 +44 (0)1527 304 004

 info@tantec-uk.com

 [www.tantec-uk.com](http://www.tantec-uk.com)



## Company profile

Plasma and Corona Treatment is used to prime a surface for adhesion – often used for leather or foam bonding to PP and PC/ABS interior trim, or for treatment before painting or coating. Systems are low power and automated, no expensive and dangerous chemicals or manual abrasion.

### Principal product

Plasma and Corona surface treatment systems to improve adhesion





## Battery casing treatments

### Zircotec Group



Innovation House  
39-41 Nuffield Way  
Abingdon, Oxfordshire  
OX14 1RL

 +44 (0)1235 546 050

 enquiries@zircotec.com

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



### Company profile

Zircotec offer Automotive OEMs Electric Vehicles solutions including RFI Shielding, Dielectric Coatings and flameproofing, enabling the use of composites for battery pack casings.

### Principal product

Heat shielding and thermal management solutions

## Battery casings

### London Electric Cars



Arch 128, Black Prince Road  
London, SE11 4UX



+44 (0)7966 806 727



info@londonelectriccars.com



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



#### Company profile

We are an engineered based start-up converting cars into fully electric. We use products from main manufacturers as well as develop our own line of electronic controllers for EV's. We design and build battery packs and integrating controls.


#### Principal product


EV Conversions

## Jenks and Cattell Engineering



Neachells Lane, Wednesfield  
Wolverhampton, WV11 3PU

 +44 (0)1902 305 530

 sales@jcel.co.uk

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



### Company profile


Jenks and Cattell offer metal stamping, laser cut fabrication and welded assembly sheet metal manufacturing services. Primarily serving Automotive and Off-Highway industries. Processing Mild Steel, Stainless Steel, Brass, Copper and specialising in Aluminium.

#### Principal product

Metal pressings, laser fabrications, welded assemblies

## Grainger & Worrall

Building 7, Stanmore Industrial Estate  
Bridgnorth, WV15 5HP

 +44 (0)1746 768 250

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




#### Principal product

Castings

## Sanko Gosei



15-17 Seddon Place  
Stanley Industrial Estate  
Skelmersdale, WN8 8EB

 +44 (0)1695 455 400

 Jonathan.Tandy@sanko.co.uk

 [www.sanko-gosei.co.uk](http://www.sanko-gosei.co.uk)



### Company profile


Sanko Gosei is a company who develop and manufactures injection moulding solutions from R&D, Component Design, Toolmaking, Painting and Production. Being part of a worldwide group stretching from Asia to Americas working in partnership with customers. Machine range up to 3500t supporting Co-injection, High Gloss and MuCell.

#### Principal product

Plastic injection moulding and toolmaking

## Sarginsons Industries Ltd

Torrington Avenue  
Coventry, CV4 9AG

 +44 (0)2476 466 291

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



#### Principal product


Castings


## Battery cover

### LineCross



Station Road  
South Luffenham  
Rutland, LE15 8NG

 +44 (0)1780 722 327

 sholwell@linex.uk.com

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

The Linecross logo, featuring the word "Linecross" in a blue, sans-serif font. The letters "l" and "c" are underlined with a thick blue line that extends across the width of the logo.

### Company profile

Linecross operates from 2 manufacturing sites in the Midlands, employing 290 people with a turnover of £ 36 million. Our major markets are niche volume Automotive, Commercial Vehicles, Off Road and Construction and Leisure Vehicles. Our focus is to bring lightweight solutions in a wide variety of application areas.


### Principal product


Plastic components and assemblies

# Sanko Gosei



15-17 Seddon Place  
Stanley Industrial Estate  
Skelmersdale, WN8 8EB

 +44 (0)1695 455 400

 Jonathan.Tandy@sanko.co.uk

 [www.sanko-gosei.co.uk](http://www.sanko-gosei.co.uk)



## Company profile

Sanko Gosei is a company which develop and manufactures injection moulding solutions from R&D, Component Design, Toolmaking, Painting and Production, being part of a worldwide group stretching from Asia to Americas working in partnership with customers. Machine range up to 3500t supporting Co-injection, High Gloss and MuCell.


### Principal product

Plastic injection moulding and toolmaking

# Battery management systems

## Altertek

Belbins Business Park  
Unit 8, Westlink  
Romsey, SO51 7AA

 +44 (0)330 333 5034

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


**ALTERTEK**  
BATTERY TECHNOLOGY SPECIALISTS

### Principal product

Battery pack design and assembly

## BrillPower

23 Park End Street  
Oxford, OX1 1HU

 +44 (0)20 3319 2175

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


 **BrillPower**  
REVOLUTIONIZING ENERGY STORAGE

### Principal product

BMS

## Eatron Technologies

Warwick Technology Park  
11A Innovation Centre  
Warwick, CV34 6UW

 +44 (0)1926 623 039

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


 **eatron**  
TECHNOLOGIES

### Principal product

Automotive software

## Potenza

Unit A, Charter Avenue Industrial  
Estate, Curriers Close  
Coventry, CV4 8AW

 +44 (0)2476 083 029

 [www.ptech.co](http://www.ptech.co)


 **POTENZA**  
TECHNOLOGY

### Principal product

Design, build and integration of EV technologies

## Ricardo

Shoreham Technical Centre  
Shoreham-by-Sea  
West Sussex, BN43 5FG

 +44 (0)2476 466 291

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



### Principal product


Engineering and environmental consultancy services


## Busbars

## HV Wooding



Range Road Ind Estate  
Range Road, Hythe  
Kent, CT21 6HG

 +44 (0)1303 264 471

 [sales@hvwooding.co.uk](mailto:sales@hvwooding.co.uk)

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



### Company profile

H V Wooding are experts in the production of high-performance components for the Hybrid & Electric vehicle market, including the manufacture of bespoke Busbars for battery and drivetrain applications and Motor laminations and Core packs.

### Principal product


Manufacture of metal components




# Jenks and Cattell Engineering



Neachells Lane, Wednesfield  
Wolverhampton, WV11 3PU

 +44 (0)1902 305 530

 sales@jcel.co.uk

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



## Company profile

Jenks and Cattell offer metal stamping, laser cut fabrication and welded assembly sheet metal manufacturing services, primarily serving Automotive and Off-Highway industries. Processing Mild Steel, Stainless Steel, Brass, Copper and specialising in Aluminium.


### Principal product


Metal pressings, laser fabrications, welded assemblies

## Sertec Corporation Ltd



Wincaster House  
Gorsey Lane, Coleshill  
West Mid B46 1JU

 +44 (0)7980 928 476

 Carol.henderson@sertec.co.uk

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



### Company profile

Sertec has over 60 years of experience, specialising in the manufacture of lightweight body structures and electric vehicle components. Our people, manufacturing process, technical expertise & R&D capability provide innovative solutions to deliver value & reliability for our customers.


#### Principal product

Stamped metal parts

## Cell carrier

### WHS Plastics

Water Orton Lane, Minworth  
Sutton Coldfield, B76 9BG

 +44 (0)121 748 7777

 [www.whs-plastics.com](http://www.whs-plastics.com)



#### Principal product


Plastic injection moulding and toolmaking

## Dielectric fluids

# 3M



Cain Road, Bracknell  
Berkshire, RG12 8HT

 +44 (0)8705 360 036

 [www.3m.co.uk](http://www.3m.co.uk)

**3M** Science.  
Applied to Life.™

### Company profile


To help make you make your xEV battery designs successful, 3M employs the science of temperature control. Thermal insulation helps block temperature extremes, helping moderate operating temperatures in harsh environments. Our dielectric fluids help manage and regulate heat transfer in batteries designed for direct contact cooling.

#### Principal product

Chemicals technology applications

## Croda

Cowick Hall, Snaith, Goole  
East Yorkshire, DN14 9AA

 +44 (0)1405 860 551

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

**CRODA**

#### Principal product

Chemicals development and  
manufacture

## MiVolt

M&I Materials Ltd, Hibernia Way  
Trafford Park Manchester, M32 0ZD



+44 (0)161 864 5464



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



### Principal product


Metal salts manufacture


## EV battery sealing

### Ramsay Rubber



Vulcan Road, Bilston  
West Midlands, WV14 7HT

 +44 (0)1902 407 164

 enquiries@ramsayrubber.com

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



### Company profile

Ramsay are a UK leading manufacturer, providing high performance custom lightweight sealing, thermal, NVH and acoustic application solutions to OEMs across industry and the world. Our objective is to provide our customers with quality products in accordance with IATF16949, ISO14001 and ISO9001 standards to deliver a guaranteed service.

#### Principal product


EV battery airflow ducts

# Insulators

## ESG



Units E & F, Fording bridge  
Business Park, Ashford Road  
Fordingbridge, Hampshire  
SP6 1BD

 +44 (0)1202 825 764

 sales@evanssg.co.uk

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



## Company profile

We produce insulators and thermal interface components for use within EV powertrain, power electronics and battery systems.

### Principal product

Insulators

## Module casings

### Sertec Corporation Ltd



Wincaster House  
Gorsey Lane, Coleshill  
West Mid B46 1JU



+44 (0)7980 928 476



Carol.henderson@sertec.co.uk



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



#### Company profile

Sertec has over 60 years of experience, specialising in the manufacture of lightweight body structures and electric vehicle components. Our people, manufacturing process, technical expertise & R&D capability provide innovative solutions to deliver value & reliability for our customers.

#### Principal product

Stamped metal parts

## Pumps

### Concentric AB

5 Brooklands, Redditch  
Worcestershire, B98 9DW



+44 (0)121 445 6545



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



#### Principal product


Durable high power pumps


## Structural pack components

### Jenks and Cattell Engineering



Neachells Lane, Wednesfield  
Wolverhampton, WV11 3PU

 +44 (0)1902 305 530

 sales@jcel.co.uk

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



#### Company profile

Jenks and Cattell offer metal stamping, laser cut fabrication and welded assembly sheet metal manufacturing services, primarily serving Automotive and Off-Highway industries. Processing Mild Steel, Stainless Steel, Brass, Copper and specialising in Aluminium.

#### Principal product


Metal pressings, laser fabrications, welded assemblies




# Sertec Corporation Ltd



Wincaster House  
Gorsey Lane, Coleshill  
West Mid B46 1JU

 +44 (0) 7980 928 476

 Carol.henderson@sertec.co.uk

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



## Company profile

Sertec has over 60 years of experience, specialising in the manufacture of lightweight body structures and electric vehicle components. Our people, manufacturing process, technical expertise & R&D capability provide innovative solutions to deliver value & reliability for our customers.

### Principal product

Stamped metal parts

## Structural steels

### Tata Steel



Llanwern House  
Llanwern Works  
Newport, NP19 4QZ



+44 (0)2476 155 524



automotiveuk@tatasteelurope.com



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

The logo features the words "TATA STEEL" in a bold, blue, sans-serif font, centered within a white rectangular box with a thin grey border.

### Company profile

Tata Steel is one of the few steel suppliers that offers advanced steel solutions for electric motors, energy storage and conversion systems, crash-management components and outer panels. This integrated product offering, supported with in-depth application knowledge and engineering services, makes Tata Steel the preferred partner in your electrification journey.

#### Principal product

Electrical steels

## Thermal management systems

### Ramsay Rubber



Vulcan Road, Bilston  
West Midlands, WV14 7HT



+44 (0)1902 407 165



enquiries@ramsayrubber.com



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



### Company profile

Ramsay are a UK leading manufacturer, providing high performance custom lightweight sealing, thermal, NVH and acoustic application solutions to OEMs across industry and the world. Our objective is to provide our customers with quality products in accordance with IATF16949, ISO14001 and ISO9001 standards to deliver a guaranteed service.

#### Principal product

EV battery airflow ducts

### AVID (now Turntide)

3D Admiral Business Park  
Nelson Industrial Estate  
Cramlington NE23 1WG



+44 (0)1670 707 040




#### Principal product


Electric powertrain technologies

## Sanden International



Rosewood, Crockford Lane  
Chineham, Basingstoke  
Hampshire, RG24 8UT

 +44 (0)1495 241 500

 Sie-marketing@g-sanden.com

 [www.sanden-europe.com](http://www.sanden-europe.com)



### Company profile


Sanden is a Global Tier 1 supplier to the Passenger Car, Truck and Off Highway OEMs. Sanden produce fully electric compressors for mobile air conditioning systems as well as heat exchangers and electric coolant heaters. Sanden is also at the forefront of new Battery Thermal Management systems production and design.

#### Principal product

Thermal management solutions

## Flint Engineering

Flint Engineering Ltd  
The Paddocks, Five Ashes  
Mayfield, East Sussex, TN20 6JL

 +44 (0)1825 830 003

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




#### Principal product


Thermal management solutions

## Senior Flexonics



Unit 1 Oakwood Close  
Pen-Y-Fan Industrial Estate  
Crumlin, Newport  
Gwent, NP11 3HY

 +44 (0)1495 241 500

 [info@seniorflexonics.co.uk](mailto:info@seniorflexonics.co.uk)

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



### Company profile


Electric vehicle batteries are susceptible to fluctuating temperatures caused by both internal and external factors and can become damaged or degraded if exposed to temperatures outside their optimal range. Senior Flexonics battery thermal management plates are designed to maintain temperatures, ensuring that safety, performance, and battery life are optimized.

#### Principal product

Battery thermal management (plates and fluid)

## Grayson Thermal Systems

Wharfdale House  
257 Wharfdale Road, Tyseley  
Birmingham B11 2DP

 +44 (0)121 700 5600

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



#### Principal product

Thermal management solutions


## ▶ Battery development


### Battery pack development

#### Sprint Power (now TAE Technologies)



3900 Parkside, Solihull Parkway  
Birmingham Business Park  
West Midlands, B37 7YG

 +44 (0)3303 203 040

 info@sprint-power.com

 [www.sprint-power.com](http://www.sprint-power.com)



#### Company profile

TAE Technologies is on a mission to create a global energy revolution by developing clean, safe, carbon-free, commercial fusion power.

The company's work represents the fastest, most practical, and economically competitive solution to bring abundant clean energy to the grid. It has filed over 1,800 patents globally with over 1,100 granted, \$1.2 billion in private capital raised, five generations of National Laboratory-scale devices built along with two more in development, and an experienced team of over 400 employees.


TAE is based in California, and maintains international offices in the UK and Switzerland.

#### Principal product

Electric powertrain technologies

## Danecca

Unit 1142, Silverstone Park  
Buckingham Road, Silverstone  
Towcester, NN12 8FU

 +44 (0)1327 222 840

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




### Principal product

Battery development and  
manufacture

## Exide

Mansell House  
Aspinall Close  
Bolton, BL6 6QQ

 +44 (0)845 606 4111

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




### Principal product

Battery development and  
manufacture

## Hyperdrive (now Turntide)

Turntide Drives Eighth Avenue Team  
Valley Trading Estate Gateshead, NE11  
0QA

 +44 (0)191 497 9007

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




### Principal product

Battery design, integration and  
manufacture

## Vantage Power

Unit 7 Ockham Drive  
Greenford, London  
England, UB6 0FD

 +44 (0)208 8130 851

 [www.vantage-power.com](http://www.vantage-power.com)



### Principal product


Design & manufacture of hybrid  
and electric systems


## Battery system design

### Lunaz Applied Technology



1503 Silverstone Technology Park  
Silverstone  
Northamptonshire  
NN12 8FU

 +44 (0)1327 222 811

 info@lunaz.design

 [www.lunaz.design](http://www.lunaz.design)



#### Company profile


Lunaz Applied Technology (LAT) upcycle conventionally powered vehicles with an electrified powertrain. Key products include an electrified refuse truck, which includes a bespoke battery system and electrified powertrain developed by LAT.

#### Principal product

Upcycled Electric Vehicle production

### Altertek

Belbins Business Park  
Unit 8, Westlink  
Romsey, SO51 7AA

 +44 (0)330 333 5035

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

#### Principal product

BMS, pack design and pack assembly



## Balance Batteries

1 Wyman Chase  
Oxley Park, Milton Keynes  
England, MK4 4JT


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



**Principal product**  
Battery development

## Enix Power Solutions

Unit 2 Focus Park  
Ashbourne Way  
Solihull, B90 4QU

 +44 (0)121 506 8610

 [www.enix-power-solutions.com](http://www.enix-power-solutions.com)



**Principal product**  
Battery development and  
manufacture

## FutureMotiv

The American Barns  
Banbury Road, Lighthorne  
Warwickshire, CV35 0AE


 [www.rle-futuremotiv.com](http://www.rle-futuremotiv.com)



**Principal product**  
EV powertrain engineering services

## Rockfort Engineering

Unit 1A, 20B Wildmere Road  
Banbury, OX16 3JU

 +44 (0)1295 983 999

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



**Principal product**  
Electrical engineering solutions

## ▶ Battery pack assembly

### Battery pack assembly

#### Hyperbat



131 Beresford Avenue  
Coventry, CV6 5LZ



[contact@hyperbat.com](mailto:contact@hyperbat.com)



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



#### Company profile

Hyperbat is a joint venture between WAE Technologies and Unipart Manufacturing Group that was formed with a mission to manufacture innovative high-voltage battery solutions, optimised for high-performance and specialist applications. Hyperbat is the UK's leading manufacturer of high-performance electric vehicle battery packs and aims to become the UK leader in high-voltage battery systems, supporting UK plc by growing the UK battery technology supply chain. Hyperbat's UK battery manufacturing plans to bridge the gap between low-volume prototype build and high-volume hybrid and electric vehicle production.


#### Principal product

Battery development and manufacture

# Unipart Manufacturing Group



Unipart House  
Garsington Road, Cowley  
Oxford, OX4 2PG

 +44 (0)1865 778 966

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



## Company profile


Unipart Manufacturing Group (UMG) is a global specialist in manufacturing, supply chain and consultancy and part of the Unipart Group. UMG consults and delivers a unique and tailored solution to manufacturing, engineering and supply chain problems. With a proud heritage in the automotive industry, we have established ourselves, expanding into wider sectors while continuing to deliver engineering excellence for our customers.

### Principal product

Manufacturing & logistics

## Aceleron

Leask House Hanbury Road  
Stoke Prior, Bromsgrove  
England, B60 4JZ

 +44 (0)121 201 2933

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




### Principal product

Battery manufacture

## Altertek

Belbins Business Park  
Unit 8, Westlink  
Romsey, SO51 7AA

 +44 (0)330 333 5036

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




### Principal product

Battery development and  
manufacture

## BEDEO

BD Auto and Energy Limited  
36 Dover Street, London, W1S 4NH

 +44 (0)1252 741 800


 [www.bedeo.tech](http://www.bedeo.tech)



**Principal product**  
Vehicle electrification

## Danecca

Unit 1142, Silverstone Park  
Buckingham Road, Silverstone  
Towcester, NN12 8FU

 +44 (0)1327 222 840

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



**Principal product**  
Battery development and  
manufacture

## Envision AESC

Washington Road  
Sunderland  
Tyne & Wear, SR5 3NS


 [www.envision-aesc.com](http://www.envision-aesc.com)



**Principal product**  
Cell development and  
manufacture

## Exide

Mansell House  
Aspinall Close  
Bolton, BL6 6QQ

 +44 (0)845 606 4111


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



**Principal product**  
Battery development and  
manufacture

## Hyperdrive (now Turntide)

Turntide Drives Eighth Avenue  
Team Valley Trading Estate  
Gateshead, NE11 0QA

 +44 (0)191 497 9007

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




### Principal product

Battery development and manufacture

## LiNa

Unit 8, Sharpes Mill White Cross  
Business Park, South Road  
Lancaster, LA1 4XQ

 +44 (0)1524 748 099

 [www.lina.energy](http://www.lina.energy)




### Principal product

Cell development and manufacture

## Williams Advanced Engineering

Grove, Wantage  
Oxfordshire, OX12 0DQ

 +44 (0)1235 777 919

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



### Principal product

Design Engineering consultancy


## ▶ Battery testing

### Battery abuse testing

#### Horiba Mira



Watling Street  
Nuneaton, CV10 0TU

 +44 (0)24 7635 5000

 [www.horiba-mira.com](http://www.horiba-mira.com)



#### Company profile


Horiba Mira's comprehensive range of circuits and facilities enable customers to carry out a wide range of activities in a controlled and secure environment, irrespective of vehicle type – motorcycles, cars, commercial, off-highway and military vehicles. Horiba Mira offers range of solutions, including extensive support services, to assist achievement of the levels of quality required for development programmes.

#### Principal product

Engineering, testing and development

#### HSE

HSE Science and Research Centre  
Harpur Hill, Buxton SK17 9JN

 +44 (0)203 028 2000

 [www.hse.gov.uk](http://www.hse.gov.uk)




#### Principal product

Workplace health and safety  
regulation and enforcement

## UL Solutions

UL Unit 1 - 3, Horizon Wade Road  
Kingsland Business Park  
Basingstoke, RG24 8AH

 +44 (0)1256 312 100

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



### Principal product


Safety related testing, inspection and certification


## Battery test equipment

## Thyssenkrupp System Engineering



Unit 5, The Felbridge Centre  
East Grinstead, West Sussex  
RH19 1XP

 +44 (0)7946 911 591

 [adrian.tooms@thyssenkrupp.com](mailto:adrian.tooms@thyssenkrupp.com)

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



### Company profile

Thyssenkrupp System engineering provide turn-key solutions for automated assembly and test systems, equipment and services in the area of EV drive and battery assembly with a major focus on transformation towards electro-mobility.

### Principal product


Automated assembly and test equipment for EV battery and powertrain


## Cells, module and pack testing

### ACCU Technology UK



Sandford Gate  
East Point Business Park  
Oxford, OX4 6LB

 +44 (0)1865 306 645

 info@accu.eu

 [www.accu.eu](http://www.accu.eu)



**ACCU**  
Total Quality Solutions

#### Company profile


ACCU provides intelligent solutions for supply chain quality management and third-party logistics (3PL), delivering reliable and efficient services to both global and local clients. We expertly integrate proprietary intelligent quality platforms with warehousing and logistics for the automotive, consumer electronics, electromechanical and intelligent manufacturing industries.

#### Principal product

Quality, 3PL, Warehousing

### Alphatech

Green House, Homefield Road (West)  
Homefield Road Industrial Estate  
Haverhill, Suffolk, CB9 8QP

 +44 (0)1440 714 709

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



**alphatech**

#### Principal product


Testing chamber supplier and test house




## Autocraft Solutions Group



Syston Lane, Belton, Grantham  
Lincolnshire, NG32 2LY

 +44 (0)1476 581 300

 info@AutocraftDS.com

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



### Company profile


Autocraft Solutions Group is one of Europe's leading OEM partners for the manufacture and remanufacture of outsourced IC engines and EV batteries, and future sustainable propulsion solutions to a global market. Autocraft's unique selling point is helping customers outsource their non-core operations, by providing top OEM quality production, and saving investment and headaches involved with keeping these operations in-house.

#### Principal product

Manufacture and remanufacture of ICE and EV batteries

## Ricardo

Shoreham-by-Sea  
West Sussex, BN43 5FG

 +44 (0)1273 455 611

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




#### Principal product

Engineering and environmental consultancy services

## SGS

859 London Rd, St. Clements Way  
Grays, RM20 3LG

 +44 (0)1708 681 944

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




#### Principal product

Testing, verification, inspection and certification

## Horiba Mira



Watling Street  
Nuneaton, CV10 0TU

 +44 (0)24 7635 5000

 [www.horiba-mira.com](http://www.horiba-mira.com)



### Company profile

Horiba Mira's comprehensive range of circuits and facilities enable customers to carry out a wide range of activities in a controlled and secure environment, irrespective of vehicle type – motorcycles, cars, commercial, off-highway and military vehicles. Horiba Mira offers range of solutions, including extensive support services, to assist achievement of the levels of quality required for development programmes.

#### Principal product

Battery abuse testing

## UKBIC

Rowley Road, Baginton  
Coventry, CV8 3AL

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




#### Principal product


Battery industrialisation

## Mahle Powertrain



Costin House  
St. James Mill Road  
Northampton, NN5 5TZ

 +44 (0)1604 738 000

 powertrain@mahle.com

 [www.mahle-powertrain.com](http://www.mahle-powertrain.com)



**MAHLE**  
*Powertrain*

### Company profile


MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer and technology driver for the mobility of the future. We are committed to making transportation more efficient, more environmentally friendly, and more comfortable by optimizing the combustion engine, driving forward the use of alternative fuels, and laying the foundation for acceptance and worldwide introduction of e-mobility.

#### Principal product

Powertrain engineering and consultancy services

## University of South Wales (CAPSE)

Aberdare, CF44 0ND

 +44 (0)3455 760 101

 [www.southwales.ac.uk](http://www.southwales.ac.uk)



#### Principal product

University

## UTAC (Millbrook Proving Ground)



Millbrook, Bedford  
MK45 2JQ



+44 (0)1525 404 242



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

The UTAC logo, featuring the letters "UTAC" in a bold, blue, sans-serif font. A stylized blue swoosh or arrow shape is positioned above the letter "C", pointing to the right.

### Company profile

Millbrook provides vehicle test and validation services and systems to customers in the automotive, transport, tyre, petrochemical and defence industries. It is independent and impartial in everything it does.

#### Principal product

Vehicle validation, testing, homologation and certification

## ▶ Cell components

### Anode development

#### Echion



9 Cambridge South  
West Way, Sawston Cambridge,  
CB22 3FG



+44 (0)1223 421 831



ali.white@consciouscomms.com



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



#### Company profile

Echion Technologies, develop and manufacture very high power, fast charge, long life, safe anodes. We are in commercial scale manufacture of the material and have various form factor cells produced and tested by a large number of global cell manufacturers.

##### Principal product

Nb-based anodes

#### Nexeon

136 Eastern Avenue  
Milton Park, Abingdon  
Oxfordshire, OX14 4SB



+44 (0)1865 408 330



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



##### Principal product

Si-based anodes

## Nyobolt

The Bradfield Centre  
184 Cambridge Science Park  
Milton Road, Cambridge, CB4 0GA


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



**Principal product**  
Nb-based anodes

## Sigma Lithium

D5 Culham Science Centre  
Abingdon, Oxfordshire, OX14 3DB

 +44 (0)1865 408 330

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




**Principal product**  
Li-based anodes

## Binders and separator coatings

## Solvay

Composite House, Sinclair Close  
Heanor Gate Industrial Estate  
Heanor, DE75 7SP

 +44 (0)1773 766 200

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




**Principal product**  
Materials, solutions and chemicals

## Cell casings

### Presspart Manufacturing

Whitebirk Industrial Estate  
Blackburn, BB1 5RF

 +44 (0)7384 259 453

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




#### Principal product

Cylindrical Battery Cases  
(battery cans)

## Cell tab manufacture

### Avocet Battery Materials

Unit B3, Manor Point  
Holmes Chapel, Cheshire  
CW4 8GL

 +44 (0)1625 590 745

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



#### Principal product

Cell tab manufacturer

## Electrode development

### Addionics

84 Wood Lane (Translation  
and Innovation Hub, I-HUB)  
London, W12 0BZ

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


 The logo for ADDIONICS is the word 'ADDIONICS' in a bold, black, sans-serif font.

#### Principal product

3D structured electrodes

## In cell sensors

### Dukosi

Exchange Crescent No.1  
1-7 Conference Square  
Edinburgh, EH3 8RA



+44 (0)131 445 7772



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



#### Principal product

In cell sensors




## ► Cells


### Cell development

#### AMTE Power



Bee House  
140 Eastern Avenue  
Milton Park, Oxfordshire  
OX14 4SB

 +44 (0)1235 854 006

 hello@amtepower.com

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



#### Company profile


AMTE Power is a leading battery cell manufacturer. Based on exciting new chemistries, products are designed to solve key challenges in power delivery, energy performance and safety for electric vehicles and renewable energy storage.

##### Principal product

Ultra High Power Lithium-ion battery cell, in a pouch format

#### Deregallera

Unit 2, De Clare Court  
Pontywindy Industrial Estate  
Caerphilly, CF83 3HU

 +44 (0)29 2084 9009

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




##### Principal product

Energy storage and electric drives development

## Faradion

The Innovation Centre  
217 Portobello  
Sheffield, S1 4DP

 +44 (0)114 224 2421

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




### Principal product

Na-ion cells and batteries

## Ilika

Unit 10a, The Quadrangle  
Premier Way  
Romsey, SO51 9DL

 +44 (0)23 8011 1400

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

### Principal product

Solid state battery technology

## Inobat

Unit 1, Warwick Innovation Centre  
Gallows Hill, Warwick, CV34 6UW


 [www.inobatauto.eu](http://www.inobatauto.eu)

### Principal product

Cell development and manufacture

## LiNa

Unit 8, Sharpes Mill White Cross  
Business Park, South Road  
Lancaster, LA1 4XQ

 +44 (0)1524 748 099

 [www.lina.energy](http://www.lina.energy)

### Principal product


Na-ion cells


## Cell manufacture

### AMTE Power



Bee House  
140 Eastern Avenue  
Milton Park, Oxfordshire  
OX14 4SB

 +44 (0)1235 854 006

 hello@amtepower.com

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



#### Company profile

AMTE Power is a leading battery cell manufacturer. Based on exciting new chemistries, products are designed to solve key challenges in power delivery, energy performance and safety for electric vehicles and renewable energy storage.

#### Principal product

Ultra High Power Lithium-ion battery cell, in a pouch format

### Envision AESC

Washington Road  
Sunderland  
Tyne & Wear, SR5 3NS

 [www.envision-aesc.com](http://www.envision-aesc.com)



#### Principal product


Cell development and  
manufacture

## ▶ Raw materials

### Active electrode binders

#### Synthomer

45 Pall Mall  
London, SW1Y 5JG

 +44 (0)1279 436 211

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



**Principal product**  
Chemical binders

### Adhesives

#### DuPont

4th Floor Kings Court  
London Road  
Stevenage, SG1 2NG

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




**Principal product**  
Chemicals development and  
manufacture

## Advanced chemicals for electronics

### EpiValence

The Wilton Centre  
Redcar and Cleveland  
TS10 4RF

 +44 (0)1642 924 904

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



#### Principal product

Advanced chemicals for electronics

## Aluminium

### Advanced Energy Minerals

Unit 4f Ignite Project  
The Innovation Centre, Warwick  
Technology Park, Gallows Hill  
Warwick, CV34 6UW

 [www.aem-international.com](http://www.aem-international.com)



#### Principal product

Ultra pure aluminium

## Anode materials

### Phillips66

7th Floor, 200 Aldersgate Street  
Barbican, London, EC1A 4HD

 [www.phillips66.com](http://www.phillips66.com)



#### Principal product

Chemicals development and  
manufacture

## Binders

### Ashland



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



**Principal product**

Chemical additives

### Lubrizol

3000 Hillswood Drive  
Hillswood Business Park  
Chertsey, Surrey, KT16 ORS



+44 (0)1332 842 211



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




**Principal product**

Chemicals development and  
manufacture

## Cathode active material

### BASF

2 Railway Road  
Stockport, SK1 3GG

 +44 (0)161 475 3000

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




#### Principal product

Chemicals development and  
manufacture

### EV Metals Group

Oxford Battery Technology Centre  
142A Park Drive, Milton Park Abingdon,  
Oxfordshire, OX14 4SE

 +44 (0)1235 399 100

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




#### Principal product

Battery materials and technology

## Chemical manufacture

### Oxkem

117 Loverock Road, Reading  
Berkshire, RG30 1DZ

 +44 (0)118 952 2929

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




#### Principal product

Chemical manufacture

## Graphene applications

### Anaphite

Science Creates  
St Philips Central  
Albert Road, Bristol, BS2 0XJ

 +44 (0)117 313 4705

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




#### Principal product

Graphene enhanced cathode active material

### Applied Graphene Materials

The Wilton Centre  
Redcar and Cleveland  
TS10 4RF

 +44 (0)1642 438 214

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




#### Principal product

Graphene nanoplatelet dispersion technology

### DZP Technologies

Future Business Centre  
Kings Hedges Road  
Cambridge, CB4 2HY

 +44 (0)1223 781 191

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



#### Principal product

Printed electronics

### Integrated Graphene

Euro House  
Stirling, FK8 2DJ

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




#### Principal product

3D graphene foam



## Thomas Swan

Rotary Way  
Consett, DH8 7ND

 +44 (0)1207 505 131

 [www.thomas-swan.co.uk](http://www.thomas-swan.co.uk)




### Principal product

Chemicals development and  
manufacture

## High grade Cobalt and Nickel

### ICoNiChem

ICoNiChem Widnes Ltd  
Moss Bank Road, Widnes  
Cheshire, WA8 0RU

 +44 (0)151 424 9156

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


### Principal product

High grade Co and Ni

## Ion-conductive ceramics

### Ionotec

14 Berkeley Court  
Manor Park, Runcorn  
Cheshire WA7 1TQ

 +44 (0)1928 579 668

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



### Principal product


Ion-conductive ceramics


## Lithium mining

### Cornish Lithium



Tremough Innovation Centre  
Penryn, Cornwall, TR10 9TA

 +44 (0)20 7138 3204

 info@cornishlithium.com

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



#### Company profile


Cornish Lithium is a private British mineral exploration company focussed on the sustainable extraction of lithium and other battery metals in the historically significant mining district of Cornwall, UK.

#### Principal product

Lithium extraction – geothermal and hard rock

### British Lithium

Unit 6, Victoria Business Park Roche,  
PL26 8LX

 +44 (0)1726 339 345

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



#### Principal product


Mineral exploration and extraction

## Green Lithium



107-111 Fleet Street  
Ludgate House, London  
EC4A 2AB



 [info@greenlithium.co.uk](mailto:info@greenlithium.co.uk)

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

### Company profile


Green Lithium will build the UK's first large-scale lithium refinery at PD Ports, in Teesside, UK. The creation of this substantial facility will begin to meet the urgent needs of the battery manufacturing and automotive sectors within the UK and the EU, as the global transition to electric vehicles (EVs) drives an increasing necessity for lithium processing capabilities on the continent.

#### Principal product

Refinery of battery grade LiOH

## Leverton Lithium

13-15 Sherrington Way  
Lister Road Industrial Estate  
Basingstoke, RG22 4DQ

 +44 (0)1256 810 393

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



#### Principal product

Manufacturer of Li compounds

## Weardale Lithium

Venture House  
Aykley Heads Business Centre  
Durham, DH1 5TS



[www.weardalelithium.co](http://www.weardalelithium.co)



### Principal product

Mineral exploration and extraction

## Nickel and Manganese

### William Rowland

Unit 4, Enterprise Way  
Tankersley, South Yorkshire  
S75 3DZ



+44 (0)114 276 9421



[www.william-rowland.com](http://www.william-rowland.com)



### Principal product

Metal and metal powder supplier

## Testing and development

### Lucideon

Queens Road, Penkhull  
Stoke-on-Trent  
Staffordshire, ST4 7LQ



+44 (0)1782 764 428



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



### Principal product

Materials development and testing consultancy


# ▶ Refurbish, re-use, recycle


## Battery recycling

### ACCU Technology UK



Sandford Gate  
East Point Business Park  
Oxford, OX4 6LB

 +44 (0)1865 306 645

 info@accu.eu

 [www.accu.eu](http://www.accu.eu)

The ACCU logo, featuring the word "ACCU" in a bold, red, italicized sans-serif font, with the tagline "Total Quality Solutions" in a smaller, black, sans-serif font below it.

**ACCU**  
Total Quality Solutions

### Company profile

ACCU provides intelligent solutions for supply chain quality management and third-party logistics (3PL), delivering reliable and efficient services to both global and local clients. We expertly integrate proprietary intelligent quality platforms with warehousing and logistics for the automotive, consumer electronics, electromechanical and intelligent manufacturing industries.


#### Principal product

Quality, 3PL, Warehousing

## CarTakeBack.com



Bankfield House  
Regent Road  
Liverpool, L20 8RQ

 +44 (0) 330 818 85 50

 info@CarTakeBack.com

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



### Company profile


Since 2005 CarTakeBack, through the largest scrap car recycling network in the UK have provided fully compliant end of life vehicle services to official vehicle manufacturer partners. From 2015 this service provision has grown beyond end of life ICE vehicles, EVs and HEVs to encompass their batteries and other components.

#### Principal product

Scrap Car & Waste EV/HEV Battery Services

## ATC Drivetrain

EV Recycling Ltd.,  
Unit 12 Llanelli Gate,  
Dafen, Llanelli, SA14 8LQ

 +44 (0)1554 775 938

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




#### Principal product


Battery recycling

## Cellcycle



Unit A Tilson Road  
Roundthorn Industrial Estate  
Manchester, M23 9GF

 +44 (0)161 637 5656

 info@cellcycle.co.uk

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



### Company profile


Cellcycle is one of the UK's only full accredited battery recycling specialists, providing clients nationwide with a compliant, sustainable and complete battery recycling solution. We utilise state-of-the-art techniques to sustainably treat and recycle all types of Li-ion batteries, ranging from portable to industrial scale found in electric and hybrid vehicles.

#### Principal product

Sustainable Battery Recycling & Reuse

## Axion Polymers

Tenax Road, Trafford Park  
Manchester, M17 1JT

 +44 (0)161 871 8590

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




#### Principal product

Resource recovery

## EMR

Sirius House, Delta Crescent  
Warrington, WA5 7NS

 +44 (0)1925 715 400

 [uk.emrgroup.com](http://uk.emrgroup.com)




#### Principal product


Vehicle and battery recycling

## Ecobat Solutions



Crescent Works Industrial Park  
Willenhall Road, Darlaston West  
Midlands, WS10 8JR

 +44 (0)121 568 3200

 info@ecobat.com

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



### Company profile


Ecobat is a world leader in the production of lead, lead alloys, and the recycling of lead batteries. Ecobat's vast network features 13 smelters across three continents with an average annual output of 840,000 tons of lead. Production is matched by a lead recycling system which allows Ecobat to recover and repurpose over 99% of the metal.

#### Principal product

Battery recycling

## Fenix Battery Recycling

1 Byrehill Place  
West Byrehill Industrial Estate  
Kilwinning KA13 6LD

 +44 (0)121 820 6421

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



#### Principal product


Battery recycling



# Johnson Matthey



Gate 6, Orchard Road, Royston  
Hertfordshire SG8 5HE

 +44 (0)1763 253 000

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

**JM** Johnson Matthey  
Inspiring science, enhancing life

## Company profile


As a global leader in sustainable technologies, Johnson Matthey applies cutting-edge science to create solutions with customers that make a real difference to the world around us. JM have been leaders in their field for more than 200 years, applying unrivalled scientific expertise to enable cleaner air, improved health and the more efficient use of the planet's natural resources.

### Principal product

Chemicals development and manufacture

## Glencore

18 Hanover Square  
London, W1S 1JY

 +41 41 709 2000

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

GLENCORE

### Principal product

Natural resources

## Lithium Battery Recycling Solutions

1 Covent Garden Close  
Luton, Bedfordshire, LU4 8QB

 +44 (0)208 090 7300

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



### Principal product

Battery recycling

## LiBatt Recycling



Lincoln Street, Wolverhampton  
Staffordshire, WV10 0DX



+44 (0)1845 597 321



info@libattrecycling.com



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



### Company profile

LiBatt is looking to become the UK's first industrial-scale Li-ion battery recycler by leveraging sustainable, next generation recycling technologies. The ambition is for LiBatt's operations to support the circular economy, increase efficiencies, and reduce the carbon footprint within the Li-ion battery industry.

#### Principal product

Battery recycling

## RS Bruce

March Street, Sheffield  
South Yorkshire, S9 5DQ



+44 (0)114 244 8050



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



#### Principal product


Previous metal recovery

## Li-Cycle



1 Bartholomew Lane  
London, EC2N 2AX



 [customerservice@li-cycle.com](mailto:customerservice@li-cycle.com)

 [www.li-cycle.com](http://www.li-cycle.com)

### Company profile


Li-Cycle's proprietary Spoke & Hub Technologies use a combination of safe mechanical size reduction and hydrometallurgical resource recovery specifically designed for lithium-ion battery recycling. Providing the support to ensure that the battery recycling experience is handled in a safe, sustainable, and economically viable manner.

#### Principal product

Battery recycling

## Solvay

Sinclair Close, Heanor  
Derbyshire, DE75 7SP

 +44 (0)1773 766 200

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




#### Principal product


Materials, solutions and chemicals

## Recyclus



18 Savile Row  
London, W1S 3PW

 +44 (0)20 7193 6283

 info@recyclusgroup.com

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



### Company profile

Recyclus' Li-ion recycling process is industry leading, capable of safely dealing with the 5+ types of Li-ion battery chemistry, in any combination, at any one time - moving the industry towards 100% recyclable, zero-landfill solutions, in line with the COP26 agenda & the transition towards electric transport by providing end-of-life solutions and strategic support in the UK battery recycling market.

#### Principal product

Battery recycling

## Veolia

210 Pentonville Road  
London, N1 9JY

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




#### Principal product

Water, waste and energy  
management

# Valeo



Unit 53, Heming Road Washford,  
Redditch Worcestershire, B98 0DZ

 +44 (0)1527 838 300

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



## Principal product

Mobility technology supplier

## Battery refurbishment

### Autocraft Solutions Group



Syston Lane, Belton  
Grantham, Lincolnshire  
NG32 2LY



+44 (0)1476 581 300



info@autocraftsg.com



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



#### Company profile

Autocraft Solutions Group is one of Europe's leading OEM partners for the manufacture and remanufacture of outsourced IC engines and EV batteries, and future sustainable propulsion solutions to a global market. Autocraft's unique selling point is helping customers outsource their non-core operations, by providing top OEM quality production, and saving investment and headaches involved with keeping these operations in-house.


#### Principal product


Manufacture and remanufacture of ICE and EV batteries

## Carwood



Herald Way, Binley  
Coventry, West Midlands  
CV3 2RQ

 +44 (0)2476 449 533

 sales@carwood.org

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

### Company profile

In addition to its own range of remanufactured diesel products, turbochargers and electrical equipment Carwood has an approved supplier base of over 500 original quality manufacturers worldwide, this means Carwood can often obtain parts that others find difficult to locate. It can also afford choice and value by finding the original manufacturing sources of a part for the customer.

#### Principal product

Component remanufacture

## Battery re-use

### Powervault

Unit 9, Garrick Industrial Estate Irving  
Way, London, NW9 6AQ

 +44 (0)203 653 1111

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

#### Principal product

Homes energy storage

▶ **Electrified  
powertrain**





## ► Electric drive unit

### EDU assembly

## Advanced Electric Machines



10-11 Teal Farm Way  
Teal Farm Park, Washington  
NE38 8BG



+44 (0)191 4477010



info@advancedelectricmachines.com



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



### Company profile

AEM is an internationally recognised designer and manufacturer of electric motors and powertrain systems, with customers all over the world.

We design and build world leading electric motor technologies delivering world record performance and 100% recyclability.

AEM deliver the most sustainable electric powertrain technologies in the world with market leading performance, removing rare earth materials with no compromise.


#### Principal product

Electric powertrain technologies

## ePropelled



Innovation Center  
Trade Street  
Cardiff CF10 5DT

 +44 (0)7552 216 010

 info@ePropelled.com

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



**ePROPELLED™**  
The Future of Electric Propulsion

### Company profile


ePropelled designs state of the art motors, generators, and power management systems. ePropelled technology helps reduce energy consumption and improve system efficiency at a lower cost in the aerospace, manned and unmanned aerial vehicles, electric vehicles, and pump motor markets.

#### Principal product

Electric powertrain technologies

## AVID (now Turntide)

Turntide Drives Eighth Avenue  
Team Valley Trading Estate  
Gateshead, NE11 0QA

 +44 (0)191 497 9007

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

**TURNTIDE®**


#### Principal product


Electric powertrain technologies

## Ford



Ford Plant, Speke Boulevard  
Halewood, Merseyside, L24 9LE

 +44 (0)1277 253 000

 UKCRC1@ford.com

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



### Company profile


Building on its commitment to grow an all-electric vehicle range, Ford is investing £380 million in its Halewood Plant, on Merseyside, to produce 420,000 electric power units a year from 2024. Halewood's edrive motor and gearbox will be fitted to Ford E-Transit Custom, E-Tourneo Custom, Transit Courier, Tourneo Courier, Puma and further Ford EVs.

#### Principal product

Vehicle manufacture

## Equipmake Ltd

Unit 7 Snetterton Business Park  
Snetterton, Norfolk, NR16 2JU

 +44 (0)1953 661 200

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




#### Principal product

Electric powertrain technologies

## GKN Automotive



2100 The Crescent  
Birmingham Business Park  
Birmingham  
West Midlands, B37 7YE

 +44 (0)1527 533 600

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



### Company profile


GKN Automotive is a global leader in eDrive technologies, the architects of an electrified future. Innovation, expertise and global footprint give the ability to drive a sustainable future, delivering eDrive technologies, competitively and at scale.

#### Principal product

Electric powertrain technologies

## Helix

Merlewood Drive, Shenley Wood  
Milton Keynes, MK5 6GR

 +44 (0)1908 278 600


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

#### Principal product

Electric powertrain technologies

## Hyperdrive (now Turntide)

Turntide Drives Eighth Avenue  
Team Valley Trading Estate  
Gateshead, NE11 0QA

 +44 (0)191 497 9007

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




### Principal product

Electric powertrain technologies

## Magtec (Magnetic Systems Technology Limited)

Units E01 & E02, Temple Close  
Rotherham, S60 1FH

 +44 (0)114 244 8416

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



### Principal product

Electric powertrain technologies

## Saietta Group

Unit 1500A, Silverstone Park  
Silverstone, Towcester  
Northamptonshire, NN12 8FU

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



### Principal product


Electric powertrain technologies


## E-motors

### Protean Electric



Unit 10B Coxbridge Business Park  
Alton Road, Farnham  
Surrey, GU10 5EH

 +44 (0)1252 741 800

 info@proteanelectric.com

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



#### Company profile


Protean Electric is an automotive technology firm. We are over 150 talented people based in the UK and China. Our mission is to drive sustainable transport through innovation. Since 2008, we have focused on the development of ProteanDrive technology. Today we are the world leader of in-wheel motor technology.

#### Principal product

In-wheel e-motors

### Deregallera

Unit 2, De Clare Court  
Pontywindy Industrial Estate  
Caerphilly, CF83 3HU

 +44 (0)29 2084 9009

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




#### Principal product


Electric drive and energy storage technology

## YASA Limited



11-14 Oxford Industrial Park  
Kidlington, Oxfordshire  
OX5 1QU

 +44 (0)1865 952 100

 sales@yasa.com

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

### Company profile


YASA, in partnership with Mercedes Benz, are leading the way in EV Motor Revolution with the YASA Axial Flux Technology. Founded in 2009 on the belief that small, powerful and efficient electric motors would play an increasingly important role in meeting the strict emissions targets being set by policy makers globally by enabling new, more efficient and sustainable means of transportation.

#### Principal product

e-Motors and controllers

## Empel Systems

UNIT 6, 17-19 Avant Business Centre  
Third Avenue, Denbigh West  
Milton Keynes, MK1 1DR

 +44 (0)1908 419 015

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

#### Principal product

e-Motors and power electronics

## iNetic

Unit N & O, Hunting Gate  
East Portway Industrial Estate  
Andover, Hampshire, SP10 3SJ



+44 (0)1264 334 095



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

### Principal product

e-Motors

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## Printed Motor Works

PMW Dynamics  
Newman Lane Alton  
Hampshire GU34 2QW



+44 (0)1420 594 140

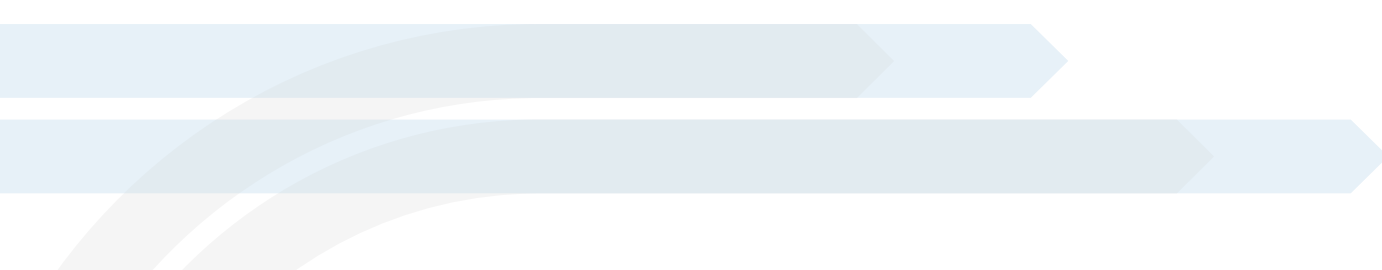


[www.pmwynamics.com](http://www.pmwynamics.com)



### Principal product

e-Motors





## ► E-motor components

### Bearings

#### Koyo



Whitehall Avenue, Kingston  
Milton Keynes MK10 0AX



Andrew.morgan@jtekt.eu



[www.jtekt.eu](http://www.jtekt.eu)

The JTEKT logo, consisting of the word "JTEKT" in a bold, black, sans-serif font. A red horizontal line is positioned behind the letter "E", extending slightly to the left and right.

#### Company profile

Koyo is the bearing brand of JTEKT Corporation and supply all types of bearings into the Automotive sector. Many innovative features to reduce rotational losses mean Koyo is the bearing partner of choice for many European OEM's and EV motor manufacturers.

#### Principal product

Bearings

## Control software

### Hofer Powertrain UK Limited



2 Titan Business Centre  
Spartan Close  
Warwick CV34 6RR



+44 (0)1926 674 500



info@hofer-powertrain.co.uk



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



#### Company profile

As an established and independent partner of the mobility industry, Hofer Powertrain has been providing pioneering technologies and products to companies worldwide for over 40 years, accomplished by an experienced teams of experts specialised in the development, industrialisation, and production of powertrain systems.

#### Principal product


Full powertrain supplier

## Electrical steels

### Tata Steel



Llanwern House  
Llanwern Works  
Newport, NP19 4QZ

 +44 (0)2476 155 524

 [automotiveuk@tatasteelurope.com](mailto:automotiveuk@tatasteelurope.com)

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



### Company profile

Tata Steel is one of the few steel suppliers that offers advanced steel solutions for electric motors, energy storage and conversion systems, crash-management components and outer panels. This integrated product offering, supported with in-depth application knowledge and engineering services, makes Tata Steel the preferred partner in your electrification journey.


#### Principal product

Electrical steels

## Housing

### Grainger & Worrall

Building 7  
Stanmore Industrial Estate  
Bridgnorth, WV15 5HP

 +44 (0)1746 768 250

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



#### Principal product


Castings

# Insulators

## ESG



Units E & F  
Fording bridge Business Park  
Ashford Road, Fordingbridge  
Hampshire, SP6 1BD

 +44 (0)1202 825 764

 sales@evanssg.co.uk

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



## Company profile

We produce insulators and thermal interface components for use within EV powertrain, power electronics and battery systems. As a company we have intricate knowledge of the challenges faced within E machine development, both radial and axial flux. We have an in-depth knowledge of the thermal management requirements of modern-day power electronics and associated systems.

### Principal product


Insulators


## Motor laminations and core packs

### HV Wooding



Range Road Ind Estate  
Range Road, Hythe  
Kent, CT21 6HG

 +44 (0)1303 264 471

 sales@hvwooding.co.uk

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



### Company profile

Established for over 50 years, H V Wooding are expert UK manufacturers of high-specification components including busbars, switchgear, core packs and motor laminations. Covering all manufacturing needs from prototype manufacture through to volume production via multiple manufacturing methods.

#### Principal product

Manufacture of metal components


## Rare earth magnets

### Less Common Metals

Unit 2 Hooton Park  
North Road, Ellesmere Port  
Cheshire, CH65 1BL

#### Principal product

Manufacture and supply of rare earth metals

 +44 (0)151 356 3500

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

## Sealants

### Hylomar



Cale Lane, Wigan  
WN21JT



+44 (0)1942 617 000



info@hylomar.co.uk



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



**HYLOMAR<sup>®</sup>**

### Company profile

Hylomar Limited manufactures a wide range of high-performance sealants and adhesives used by leading automotive OEMs. Hylomar non setting sealants seal against many types of fluids and stop joint corrosion whilst allowing for easy disassembly of parts for service or recycling. IATF 16949 / ISO9001 certified.

#### Principal product

Non setting jointing compound for sealing electric vehicle battery packs and electric motors


## ► Full powertrain


### Powertrain assembly

#### ACCU Technology UK



Sandford Gate  
East Point Business Park  
Oxford, OX4 6LB

 +44 (0)1865 306 645

 info@accu.eu

 [www.accu.eu](http://www.accu.eu)

The ACCU logo, featuring the word "ACCU" in a bold, red, italicized sans-serif font, with the tagline "Total Quality Solutions" in a smaller, black, sans-serif font below it.

**ACCU**  
Total Quality Solutions

#### Company profile

ACCU provides intelligent solutions for supply chain quality management and third-party logistics (3PL), delivering reliable and efficient services to both global and local clients. We expertly integrate proprietary intelligent quality platforms with warehousing and logistics for the automotive, consumer electronics, electromechanical and intelligent manufacturing industries.

#### Principal product

Quality, 3PL, Warehousing

## Meritor (now Cummins)



Cummins Ltd (CBS)  
Mitcheldean, GL17 1AR



+44 (0)1325 556 000



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



### Company profile

Meritor, Inc. is a leading global supplier of drivetrain, mobility, braking, aftermarket and electric powertrain solutions for commercial vehicle and industrial markets. With more than a 110-year legacy of providing innovative products that offer superior performance, efficiency and reliability, the company serves commercial truck, trailer, off-highway, defense, specialty and aftermarket customers around the world.

#### Principal product

Full powertrain supplier

## Prodrive

Chalker Way, Banbury  
Oxfordshire, OX16 4XD



+44 (0)1295 273 355



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

**prodrive**  
PERFORMANCE | UNLIMITED

#### Principal product

Engineering solutions




# Perkins Engine Company



Frank Perkins Way, Peterborough  
Cambridgeshire PE1 5FQ



 +44 (0)1733 583 000

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

## Company profile


With a history stretching back 90 years, Perkins is one of the world's leading providers of diesel engines. Aiming to set standards of engineering excellence, providing the most comprehensive range of innovative and reliable power solutions, tailored to meet the precise requirements of customers.

### Principal product

Full powertrain supplier

## Swindon Powertrain

Crampton Road  
Swindon, SN3 3JJ

 +44 (0)1793 531 321

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



### Principal product

Powertrain development and  
manufacture

## ZF Automotive UK

Blythe Valley Business Park  
Central Blvd, Shirley  
Solihul, B90 8BG



### Principal product

Full powertrain supplier


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

## Powertrain manufacture

### Cummins



Cummins Ltd (CBS)  
Mitcheldean, GL17 1AR

 +44 (0)1325 556 000

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



### Company profile

Cummins designs, manufactures, and distributes engines, filtration, and power generation products. Cummins also services engines and related equipment, including fuel systems, controls, air handling, filtration, emission control, electrical power generation systems, and trucks.

#### Principal product

Full powertrain supplier

## ► Hybrid transmissions

### Hybrid transmissions assembly

#### Magnomatics Limited

Park House, Bernard Road  
Sheffield, S2 5BQ



+44 (0)114 241 2570



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



#### Principal product

e-Motors and generators


# ► Powertrain design and development


## E-Powertrain test equipment

### Thyssenkrupp System Engineering



Unit 5, The Felbridge Centre  
East Grinstead, West Sussex  
RH19 1XP

 +44 (0)7946 911 591

 [adrian.tooms@thyssenkrupp.com](mailto:adrian.tooms@thyssenkrupp.com)

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



#### Company profile

Thyssenkrupp System engineering provide turn-key solutions for automated assembly and test systems, equipment and services in the area of EV drive and battery assembly with a major focus on transformation towards electro-mobility.

#### Principal product

Automated assembly and test equipment for EV battery and powertrain

## Powertrain design and integration

### BGE Automotive



Five Fords Gate, Bridge Road  
Wrexham Industrial Estate,  
Wrexham, LL139PS



+44 (0)1978 595 395



Info@BGE-Automotive.co.uk



[www.BGE-Automotive.co.uk](http://www.BGE-Automotive.co.uk)



### Company profile

BGE Automotive specialise in automotive control system development. Our expertise is powertrain and chassis and EV control systems and we can support our customers from concept through to production. From software development, simulation and validation, functional safety and cyber-security to in vehicle calibration/application, we cover the entire range of OEM control system requirements.

#### Principal product

Automotive control system development

### AVL Powertrain UK Limited

Langdale House, Sable Way  
Southfields Business Park Basildon  
Essex, SS15 6SR



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



#### Principal product


Powertrain design and development


## Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY



 +44 (0)7972 346 224

 richard.spalding@conti-engineering.com

 [www.conti-engineering.com](http://www.conti-engineering.com)

### Company profile


Early innovator of EV Technology & Systems Integration from its 1990s ZyteK roots to Continental's 2014 acquisition. Broad EV services & product capability. Design, simulation, prototyping, manufacturing capabilities in efficient, power-dense, lightweight motors, inverters, DC-DC and more. OEM, niche and motorsport markets. Consulting and troubleshooting third party EV product designs.

#### Principal product

Engineering solutions

## Delta Cosworth

Unit 9, Silverstone Technology Park  
Silverstone Circuit, Northants  
NN12 8GX

 +44 (0)1327 858 200

 [www.delta-cosworth.com](http://www.delta-cosworth.com)



#### Principal product

Powertrain design and development

## Electra Commercial Vehicles Ltd



Unit D, Johnson Way  
Shadsworth Business Park  
Blackburn, BB1 2QJ

+44 (0)1254 784 093

enquiries@electracommercialvehicles.com

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

### Company profile

Electra creates fully electric commercial vehicles for a worldwide market and a cleaner future. Providing the ultimate clean vehicle technology combined with an OEM body to exact operations, supported by a high-quality maintenance package.

#### Principal product

Powertrain integration

## FEV UK Limited

C-Alps Coventry Innovation Village  
Cheetah Road  
Coventry, CV1 2TL

+44 (0)2476 016 501

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


#### Principal product


Powertrain design and development

# Lunaz Applied Technology



1503 Silverstone Technology Park  
Silverstone  
Northamptonshire  
NN12 8FU

 +44 (0)1327 222 811

 info@lunaz.design

 [www.lunaz.design](http://www.lunaz.design)



## Company profile


Lunaz Applied Technology (LAT) upcycle conventionally powered vehicles with an electrified powertrain. Key products include an electrified refuse truck, which includes a bespoke battery system and electrified powertrain developed by LAT.

### Principal product

Upcycled Electric Vehicle production

## Hyperdrive (now Turntide)

Turntide Drives Eighth Avenue  
Team Valley Trading Estate  
Gateshead, NE11 0QA

 +44 (0)191 497 9007

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



### Principal product


Powertrain design and development




## RDM Group/Aurrigo



Unit 33 Bilton Industrial Estate  
Humber Avenue  
Coventry, CV3 1JL

 +44 (0)24 7663 5818

 ask@aurrigo.com

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



### Company profile


Aurrigo automotive technology division which was established in 1993 develops and supplies a range of innovative design engineering support, product solutions, manufactured products and services to premium vehicle OEMs and global Tier 1 manufacturers.

#### Principal product

Engineering solutions

## Hypermotive Limited

3 Cosford Business Park  
Central Park, Lutterworth  
Leicestershire, LE17 4QU

 +44 (0)1455 377 310

 [www.hyper-motive.com](http://www.hyper-motive.com)

#### Principal product


Powertrain integration

## Performance Projects

Unit 2220 Silverstone Technology  
Park, Silverstone Circuit Silverstone,  
Northants, NN12 8GX

#### Principal product

Powertrain design and  
development


 +44 (0)1327 856 032


 [www.performance-projects.com](http://www.performance-projects.com)

## Sprint Power (now TAE Technologies)



3900 Parkside, Solihull Parkway  
Birmingham Business Park  
West Midlands, B37 7YG

 +44 (0)3303 203 040

 info@sprint-power.com

 [www.sprint-power.com](http://www.sprint-power.com)



### Company profile

TAE Technologies is on a mission to create a global energy revolution by developing clean, safe, carbon-free, commercial fusion power.

The company's work represents the fastest, most practical, and economically competitive solution to bring abundant clean energy to the grid. It has filed over 1,800 patents globally with over 1,100 granted, \$1.2 billion in private capital raised, five generations of National Laboratory-scale devices built along with two more in development, and an experienced team of over 400 employees.


TAE is based in California, and maintains international offices in the UK and Switzerland.

#### Principal product

Electric powertrain technologies

## Romax

Ergo House, Mere Way  
Ruddington Fields Business Park  
Nottingham, NG11 6JS

 +44 (0)1142 225 566

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



#### Principal product

Powertrain development solutions

## UTAC (Millbrook Proving Ground)



Millbrook, Bedford  
MK45 2JQ



+44 (0)1525 404 242



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

### Company profile

Millbrook provides vehicle test and validation services and systems to customers in the automotive, transport, tyre, petrochemical and defence industries. It is independent and impartial in everything it does.

#### Principal product

Vehicle validation, testing, homologation and certification

## Rockfort Engineering

Unit 1A, 20B Wildmere Road  
Banbury, OX16 3JU



+44 (0)1295 983 998



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




#### Principal product

Electrical engineering solutions

## Vantage Power

Unit 7 Ockham Drive  
Greenford, London, UB6 0FD

 +44 (0)208 8130 850

 [www.vantage-power.com](http://www.vantage-power.com)



### Principal product

Design & manufacture of hybrid and electric systems

## ► Raw materials

### Rare earth metals processing

## Pensana

Rex House, 4-12 Regent Street  
4th Floor, London, SW1Y 4PE

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

The logo for Pensana Plc, featuring the word 'PENSANA' in a bold, blue, sans-serif font, with 'Plc' in a smaller font to the right. Below 'PENSANA' is the text 'LSE : PRE'.

### Principal product

Rare earth metal processing


## ▶ Testing


### Electrified powertrain testing

#### Mahle Powertrain



Costin House  
St. James Mill Road  
Northampton, NN5 5TZ

 +44 (0)1604 738 000

 powertrain@mahle.com

 [www.mahle-powertrain.com](http://www.mahle-powertrain.com)



**MAHLE**  
*Powertrain*

#### Company profile


MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer and technology driver for the mobility of the future. We are committed to making transportation more efficient, more environmentally friendly, and more comfortable by optimizing the combustion engine, driving forward the use of alternative fuels, and laying the foundation for acceptance and worldwide introduction of e-mobility.

#### Principal product

Powertrain design, testing and validation

#### Ricardo

Shoreham-by-Sea  
West Sussex, BN43 5FG

 +44 (0)1273 455 611

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



**R**  
RICARDO

#### Principal product


Engineering solutions

## ▶ Vehicle control systems

### All powertrain components

#### BEDEO

BD Auto and Energy Limited,  
36 Dover Street, London, W1S 4NH

 +44 (0)1252 741 800

 [www.bedeo.tech](http://www.bedeo.tech)

The logo for BEDEO, featuring the letters B, E, D, E, O in a bold, sans-serif font. The E's are stylized with horizontal bars.

**Principal product**  
Vehicle electrification

The background of the slide is a dark blue gradient with numerous bright, horizontal, and slightly curved light streaks that create a sense of motion and energy. The streaks are most prominent in the lower half of the image, where they appear as a bright, glowing horizon line.

# ▶ Hydrogen

## ► Fuel cell

### Fuel cell powertrain integration

#### Mahle Powertrain



Costin House  
St. James Mill Road  
Northampton, NN5 5TZ



+44 (0)1604 738 000



powertrain@mahle.com



[www.mahle-powertrain.com](http://www.mahle-powertrain.com)

The Mahle Powertrain logo, featuring the word "MAHLE" in a large, bold, blue, sans-serif font, with the word "Powertrain" in a smaller, italicized, blue, sans-serif font below it.

**MAHLE**  
*Powertrain*

#### Company profile

MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer and technology driver for the mobility of the future. We are committed to making transportation more efficient, more environmentally friendly, and more comfortable by optimizing the combustion engine, driving forward the use of alternative fuels, and laying the foundation for acceptance and worldwide introduction of e-mobility.

#### Principal product

Powertrain design, testing and validation




## Fuel cell systems

### Cummins



Cummins Ltd (CBS)  
Mitcheldean, GL17 1AR

 +44 (0)1325 556 000

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



#### Company profile


Cummins designs, manufactures, and distributes engines, filtration, and power generation products. Cummins also services engines and related equipment, including fuel systems, controls, air handling, filtration, emission control, electrical power generation systems, and trucks.

#### Principal product

Full powertrain supplier

### Ballard Motive Systems

24 Ashwin Street  
London, E8 3DL

 +44 (0)20 7503 1386

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


#### Principal product


Fuel cell systems

## Intelligent Energy



Charnwood Building  
Holywell Park, Ashby Road  
Loughborough  
Leicestershire, LE11 3GB

 +44 (0)1509 271 271

 [sales@intelligent-energy.com](mailto:sales@intelligent-energy.com)

 [www.intelligent-energy.com](http://www.intelligent-energy.com)



### Company profile

Intelligent Energy have developed a range of fuel cell products based on patented fuel cell technology, providing power from sub-1kW to over 100kW for applications including automotive, aerospace, power generation, telecoms, marine, rail and materials handling.

#### Principal product

Fuel cell

## Bramble Energy

6 Satellite Business Village  
Crawley, RH10 9NE

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




#### Principal product

Fuel cell

## Fuel Cell Systems

Station Yard, Hungerford  
Berkshire, RG17 0DY

 +44 (0)1488 507 050

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




### Principal product

Fuel cell systems

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## Proton Motor

57 St James's Street  
London, SW1A 1LD

 +49 (0)89 / 127 62 65-0

 [www.proton-motor.de](http://www.proton-motor.de)



### Principal product

Fuel cell systems

## ► Fuel cell components

### Control units

## Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY



+44 (0)1543 479 435



[www.conti-engineering.com](http://www.conti-engineering.com)



### Company profile

With a service portfolio that includes development, product supply, integration and consulting, as well as core competencies and specialist engineering in Driver Assistance, Interior Electronic Functions, Driveline & Electrification and Brake Systems, CES is the ideal engineering and production partner for solving technical challenges within the automotive and industrial sectors.


#### Principal product

Engineering solutions

## Gas diffusion layer

### TFP Global

Burnside Mills, Kendal  
Cumbria, LA9 6PZ

 +44 (0)1539 818 220

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



#### Principal product


Non-woven battery enclosures

## ▶ Hydrogen storage

## Hydrogen storage tank manufacture

### CMB Tech

Prospect House, Prospect Way  
Hutton, Essex, CM13 1XA

 +44 (0)1277 261 400

 [www.cmb.tech](http://www.cmb.tech)



#### Principal product

Hydrogen storage


## ► Fuel cell development


### Fuel cell system test equipment

#### Thyssenkrupp System Engineering



Unit 5, The Felbridge Centre  
East Grinstead, West Sussex  
RH19 1XP

 +44 (0)7946 911 591

 [adrian.tooms@thyssenkrupp.com](mailto:adrian.tooms@thyssenkrupp.com)

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



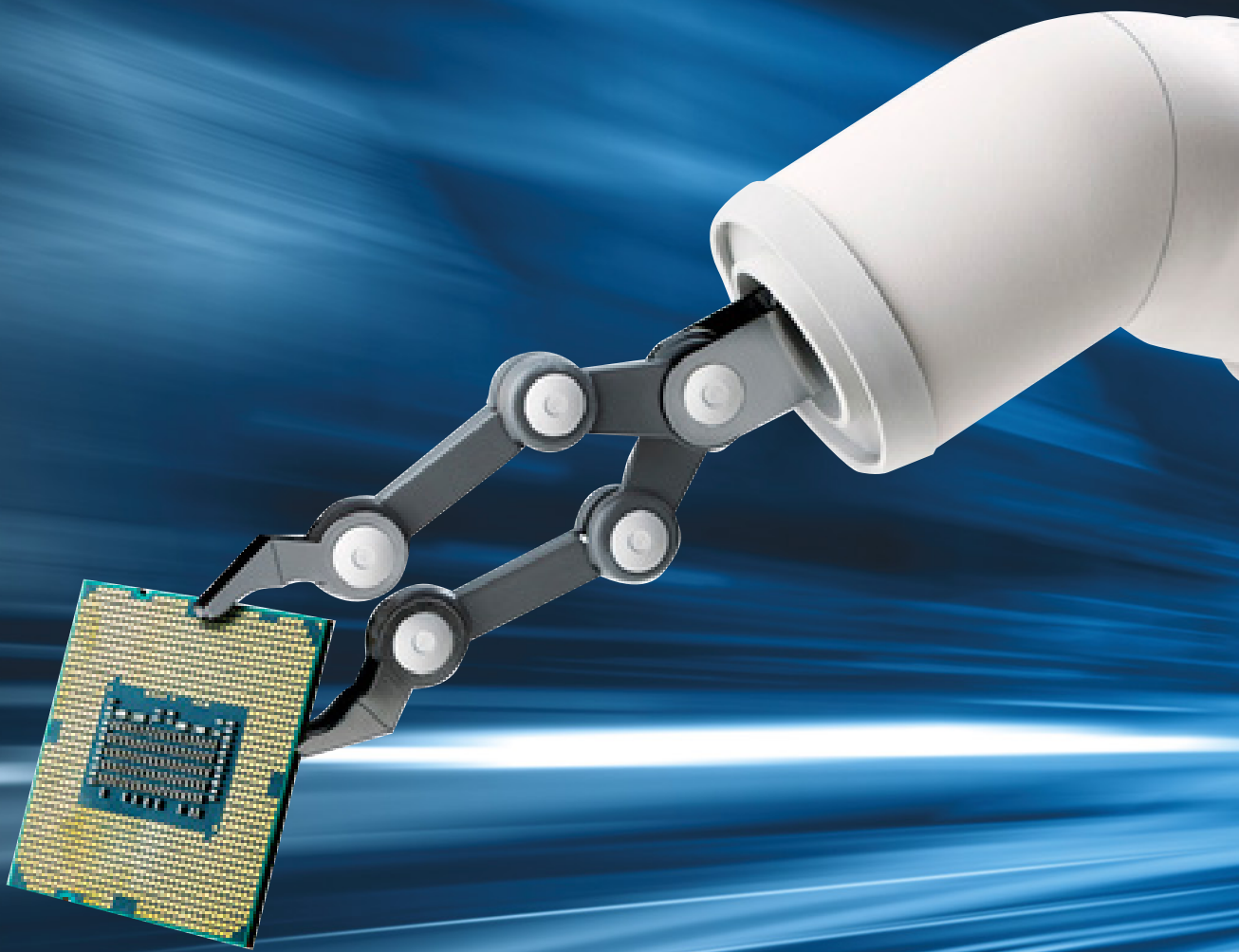
#### Company profile

Thyssenkrupp System engineering provide turn-key solutions for automated assembly and test systems, equipment and services in the area of EV drive and battery assembly with a major focus on transformation towards electro-mobility.

#### Principal product

Automated assembly and test equipment for EV battery and powertrain

▶ **Power  
electronics**




## ► Complete Power Electronics Systems

### All power electronics

#### BEDEO

BD Auto and Energy Limited  
36 Dover Street, London, W1S 4NH

 +44 (0)1252 741 800

 [www.bedeo.tech](http://www.bedeo.tech)



**Principal product**  
Vehicle electrification

## ► Component design

### DC-DC convertor design

#### FutureMotiv

The American Barns  
Banbury Road, Lighthorne  
Warwickshire, CV35 0AE

 [www.rle-futuremotiv.com](http://www.rle-futuremotiv.com)



**Principal product**  
DC-DC convertor design



## ► Controls

### Electronic controls and software

#### Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY



+44 (0)1543 479 435



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#### Principal product


Engineering solutions

# Protean Electric



Unit 10B Coxbridge Business Park  
Alton Road, Farnham  
Surrey, GU10 5EH

 +44 (0)1252 741 800

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

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



## Company profile

Protean Electric is an automotive technology firm. We are over 150 talented people based in the UK and China. Our mission is to drive sustainable transport through innovation. Since 2008, we have focused on the development of ProteanDrive technology. Today we are the world leader of in-wheel motor technology.

### Principal product

In-wheel e-motors


## ► Inverters


### Inverters

## Würth Electronics



8 The Vic, MediaCity  
Manchester, M50 3SP

 +44 (0)161 872 0431

 info@we-online.com

 [www.we-online.com](http://www.we-online.com)



**WÜRTH  
ELEKTRONIK**  
MORE THAN  
YOU EXPECT

### Company profile


The Würth Elektronik Group activities span the globe with three business units in international markets and with 23 production sites worldwide. Business units include Electronic & Electromechanical Components, Printed Circuit Boards and Intelligent Power and Control Systems.

#### Principal product

Power management electronics

## McLaren Applied

Victoria Gate  
Chobham Rd  
Woking, GU21 6JD

 +44 (0)1483 261 400

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



#### Principal product

800V Invertors


## ► Power electronics


### Insulators

#### ESG



Units E & F  
Fording bridge Business Park  
Ashford Road, Fordingbridge  
Hampshire, SP6 1BD

 +44 (0) 1202 825 764

 sales@evanssg.co.uk

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



#### Company profile

We produce insulators and thermal interface components for use within EV powertrain, power electronics and battery systems.

#### Principal product

Insulators


## ► Power electronics assembly


### Power electronics manufacture

#### Sprint Power (now TAE Technologies)



3900 Parkside, Solihull Parkway  
Birmingham Business Park  
West Midlands, B37 7YG

 +44 (0)3303 203 040

 info@sprint-power.com

 [www.sprint-power.com](http://www.sprint-power.com)



#### Company profile

TAE Technologies is on a mission to create a global energy revolution by developing clean, safe, carbon-free, commercial fusion power.

The company's work represents the fastest, most practical, and economically competitive solution to bring abundant clean energy to the grid. It has filed over 1,800 patents globally with over 1,100 granted, \$1.2 billion in private capital raised, five generations of National Laboratory-scale devices built along with two more in development, and an experienced team of over 400 employees.


TAE is based in California, and maintains international offices in the UK and Switzerland.

#### Principal product

Electric powertrain technologies

## AVID (now Turntide)

Turntide Drives, Eighth Avenue  
Team Valley Trading Estate  
Gateshead, NE11 0QA

 +44 (0)191 497 9007

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



### Principal product

Electric powertrain technologies


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## Custom Interconnect

Charlton Road, Andover  
Hampshire, SP10 3JL

### Principal product

Power electronics manufacture

 +44 (0)1264 321 321

 [www.cil-uk.co.uk](http://www.cil-uk.co.uk)

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## Delphi Technologies (Borgwarner acquisition)

Gallows Hill  
Warwick, CV34 6DA

The logo for Delphi Technologies, with "Delphi" in a bold, blue, sans-serif font above "Technologies" in a regular, blue, sans-serif font.

### Principal product

Power electronics

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

Decorative graphic at the bottom of the page consisting of several overlapping, semi-transparent blue arrows pointing to the right, with varying lengths and positions.


## ► Power electronics development


### Calibration, application, test and validation

#### BGE Automotive



Five Fords Gate, Bridge Road  
, Wrexham Industrial Estate,  
Wrexham, LL139PS

 +44 (0)1978 595 395

 [Info@BGE-Automotive.co.uk](mailto:Info@BGE-Automotive.co.uk)

 [www.BGE-Automotive.co.uk](http://www.BGE-Automotive.co.uk)



#### Company profile

BGE Automotive specialise in automotive control system development. Our expertise is powertrain and chassis and EV control systems and we can support our customers from concept through to production. From software development, simulation and validation, functional safety and cyber-security to in vehicle calibration/application, we cover the entire range of OEM control system requirements.

#### Principal product


Automotive control system development

## DC-DC convertor design

### Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY

 +44 (0)1543 479 435

 [www.conti-engineering.com](http://www.conti-engineering.com)



#### Company profile

With a service portfolio that includes development, product supply, integration and consulting, as well as core competencies and specialist engineering in Driver Assistance, Interior Electronic Functions, Driveline & Electrification and Brake Systems, CES is the ideal engineering and production partner for solving technical challenges within the automotive and industrial sectors.

#### Principal product

Engineering solutions




## Invertor design

### Continental Engineering Services



Lancaster Road  
Fradley Business Park Fradley,  
Lichfield Staffordshire, WS13  
8RY

 +44 (0)1543 479 435

 [www.conti-engineering.com](http://www.conti-engineering.com)



#### Company profile

With a service portfolio that includes development, product supply, integration and consulting, as well as core competencies and specialist engineering in Driver Assistance, Interior Electronic Functions, Driveline & Electrification and Brake Systems, CES is the ideal engineering and production partner for solving technical challenges within the automotive and industrial sectors.

#### Principal product


Engineering solutions

## ► Semiconductors

### GaN power devices

#### Cambridge GaN Devices (CGD)

Jeffreys Building  
Suite 8, Cowley Road  
Cambridge, CB4 0DS

 +44 01223 425 185


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



**Principal product**  
GaN power devices

#### Inex Microtechnology

Herschel Annex, Kings Road Newcastle  
upon Tyne, NE1 7RU

 +44 (0)191 500 7200

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




**Principal product**  
GaN power devices

## Semiconductor manufacture

#### Dynex

Doddington Road  
Lincoln, LN6 3LF

 +44 (0)1522 502 818


 [dynexsemi.com](http://dynexsemi.com)



**Principal product**  
Design, development and  
production of High Power  
Semiconductor modules and  
Power Assemblies

## Maxpower Semiconductor UK

Llantarnam Industrial Park  
Ste 12, Cwmbran, Torfaen  
NP44 3AW

 +1 408 899 5161

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




### Principal product

High performance power  
semiconductors

## Semefab

Newark Road  
South Eastfield Industrial Estate  
Glenrothes, KY7 4NS

 +44 (0)1592 630 630

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




### Principal product

Semiconductor manufacture

## Silicon Carbide wafer manufacture

## Clas-SiC

Avenue Industrial Estate  
Lochgelly, Fife, KY5 9HQ

 +44 (0)1592 373 601

 [www.clas-sic.com](http://www.clas-sic.com)



### Principal product

Silicon Carbide wafer foundry


## ► Thermal management


### Gap pad

#### ESG



Units E & F  
Fording Bridge Business Park  
Ashford Road, Fordingbridge  
Hampshire SP6 1BD

 +44 (0) 1202 825 764

 sales@evanssg.co.uk

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




#### Company profile

We produce insulators and thermal interface components for use within EV powertrain, power electronics and battery systems.

#### Principal product

Insulators

The background of the slide is a dark blue gradient with numerous bright, horizontal light streaks that create a sense of motion and depth. The streaks are most prominent in the lower half of the image, where they appear as a bright, glowing horizon line. The overall effect is futuristic and high-tech.

- ▶ **Additional  
EV components**


## ▶ Cable & pipe management clips


### NVH Products

#### Jet Press



Nunn Close, Huthwaite  
Nottinghamshire  
NG17 2HW

 +44 (0)1623 551 800

 Sales@jetpress.com

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

The logo for Jet Press, with "JET" in black and "PRESS" in red, both in a bold, sans-serif font. The word "PRESS" is underlined with a red line.

#### Company profile

JET PRESS is a leading global supplier of value engineered solutions and components. We help manufacture, build and assemble engineered fasteners, components, and hardware. Through our global supply chain and in-house engineering and development expertise, we help lower the risk, cost, and complexity of our customers' supply chains.

#### Principal product

Automotive components


## ► EV concept build

### Integration

## Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY

 +44 (0)1543 479 435

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### Company profile

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#### Principal product

Engineering solutions

## ▶ EV HVAC systems

### Compressors

#### Sanden International



Rosewood, Crockford Lane  
Chineham, Basingstoke  
Hampshire, RG24 8UT



+44 (0)1495 241 500



Sie-marketing@g-sanden.com



[www.sanden-europe.com](http://www.sanden-europe.com)



#### Company profile

Sanden is a Global Tier 1 supplier to the Passenger Car, Truck and Off Highway OEMs. Sanden produce fully electric compressors for mobile air conditioning systems as well as heat exchangers and electric coolant heaters. Sanden is also at the forefront of new Battery Thermal Management systems production and design.

#### Principal product

Thermal management solutions



## Electric Coolant Heaters (ECH)

### Sanden International



Rosewood, Crockford Lane  
Chineham, Basingstoke  
Hampshire, RG24 8UT



+44 (0)1495 241 500



Sie-marketing@g-sanden.com



[www.sanden-europe.com](http://www.sanden-europe.com)



### Company profile

Sanden is a Global Tier 1 supplier to the Passenger Car, Truck and Off Highway OEMs. Sanden produce fully electric compressors for mobile air conditioning systems as well as heat exchangers and electric coolant heaters. Sanden is also at the forefront of new Battery Thermal Management systems production and design.

#### Principal product

Thermal management solutions

## ▶ EV system integration

### Mechanical and vehicle

## Continental Engineering Services



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Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY



+44 (0)1543 479 435



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#### Principal product

Engineering solutions

## ► Tyres


### EV specific tyres

#### ENSO



8 Hermitage Street  
London, W2 1BE



 [team@ensotyres.com](mailto:team@ensotyres.com)

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

#### Company profile

ENSO is a UK tyre technology company that makes better tyres for electric vehicles (EVs), to extend EV range and reduce tyre pollution. ENSO is the only tyre company that is a Certified B-Corporation and delivers its better tyres directly to EV customers, via a D2C business model that bypasses the legacy tyre industry.

#### Principal product

Tyres for Evs


## ► Wheels


### EV specific wheels

#### Dymag Group



Unit A/B Brunel Park, Vincients Road  
Bumpers Farm Industrial Estate  
Chippenham, SN14 6NQ

 +44 (0)1249 446 438

 sales@dymag.com

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



#### Company profile

Dymag has been a leading manufacturer of lightweight wheels for cars and motorcycles since 1974. Today Dymag specialises in carbon hybrid (carbon rim with forged aluminium or magnesium spokes) and forged aluminium monobloc wheels. We have full in-house capabilities to take wheels from initial design to full homologation.

#### Principal product

Car and Motorcycle wheels

## ► Wiring harnesses

### Prototype wiring harnesses

#### Continental Engineering Services



Lancaster Road  
Fradley Business Park  
Fradley, Lichfield  
Staffordshire, WS13 8RY



+44 (0)1543 479 435



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#### Company profile

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#### Principal product

Engineering solutions

## FutureMotiv

The American Barns  
Banbury Road, Lighthorne  
Warwickshire, CV35 0AE



[www.rle-futuremotiv.com](http://www.rle-futuremotiv.com)



### Principal product

EV powertrain engineering services



# The Society of Motor Manufacturers and Traders

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