



 Controls*force*

Providing Industrial  
Electronic Services

DESIGN • BUILD • SUPPLY • INSTALL • MAINTAIN

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



*We are committed to providing industry with the latest technology, consistent high quality, outstanding reliability and the highest levels of performance.*

## Welcome to **Controlsforce**

Building on years of industrial electronic engineering experience, our customers view Controlsforce (formally known as IES-Control Ltd) as a valued partner when it comes to providing high quality industrial control systems at competitive prices.

We understand what really matters and have the ability to react and respond to your demanding application needs. We work to a high standard to design, build and develop systems to very exacting specifications. We specialise in building all types of electrical control panels, from small bench top controllers to large plant control panels and systems for applications across a broad spectrum of industries. We have amassed years of automation programming experience with many different brands of PLC and HMIs.

The level of knowledge within our business will ensure that your applications and needs are understood clearly and our dedicated team of time-served electrical and electronic engineers are able to build control systems to the most exacting of requirements.

We help and support industry by advising and offering complete solutions. We can visit your site and work with you to assess and fully understand your application needs. We work with many OEMs and are happy to offer on-going technical support for all our products.

Controlsforce is part of The Force Group and can therefore offer integrated turnkey solutions across a diverse range of industries for all your system needs. At The Force Group we are a dedicated multi-disciplinary team with product specialists you can count upon as an extension to your organisation. We offer a fully comprehensive range of products and complementary services for Valves, Heat Exchangers, Controls & Instrumentation and Pumps. Our aim is to fully align ourselves to what our customers are asking us for: dedicated expertise and cost-effective solutions to support them on or off site.

A handwritten signature in black ink, appearing to read 'D Hennessy'.

**David Hennessy**  
General Manager



## *Our partnership*

*delivering a turnkey approach*

**Customers' requirements are continually changing. To keep apace, The Force Group is constantly evolving as we align our business to the needs of the customer, the integration of specialists Controlsforce is testament to that.**

The Force Group's vision is to be the number one partner of choice for your industrial and process control requirements. We want our customers to see The Force Group as a specialist extension of their team. (The recent acquisition of the industrial instrumentation experts, Controlsforce, is evidence of this philosophy).

Across The Force Group, we have the manpower and expertise to help you improve, monitor, control and maintain your plant and processes.

With a turnkey approach firmly in mind, The Force Group continues to develop its offering with emphasis in the following areas:

### *Total Industrial Control*



#### **SPECIFICATION & DESIGN**

##### ***Understanding Your Needs***

*We invest time into understanding our customer's issues, using our expertise we develop the most cost effective approach to the solution.*



#### **SUPPLY & INSTALLATION**

##### ***A Turnkey Approach***

*A multi-disciplined turnkey approach to executing the projects that we deliver, full equipment supply, mechanical and electrical services, controls and instrumentation.*



#### **SERVICE & MAINTENANCE**

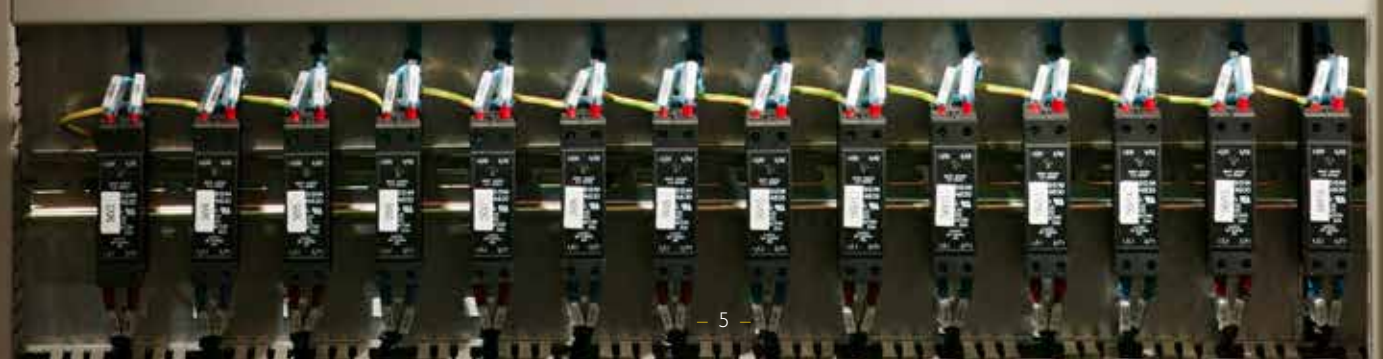
##### ***Repair / Maintain / Diagnose***

*Electrical and electronic diagnostics and repairs. Full mechanical strip down, overhaul and repair facilities, planned preventive maintenance programmes tailored to you.*

For every stage in your project, you can rely on The Force Group. With the very best level of service, independent expert technical advice and the benefit of a multi-disciplinary team, we are here to support you and your plant.

We believe we can achieve this by investing in our biggest asset – our workforce. That is why The Force Group is committed to training and developing its team, ensuring everyone achieves their goals and aspirations.

Working on product and application knowledge, workmanship standards, exceptional levels of service and strong relationships with our customers to ensure that you receive the very best level of service throughout every stage of our partnership.



## Our markets

### and industries

We have a wide-ranging customer base specialising in industrial control systems, including inverter drives, temperature control & instrumentation, valves and actuator operational control. All of our PLC systems can be supplied with network connectivity for remote control or monitoring if required.

### Heating & Cooling Systems

We have designed control panels for many forms of heating and cooling systems ranging from single zone bench top controllers through to high power process air heating to multizone shortwave infrared heating systems. Our experience extends beyond simple panel design, as we can offer commissioning and PID coefficient optimisation, as well as developing user specific PLC software to allow advanced features such as temperature profiling and complex control algorithms.

- Infra-red heating control systems
- Industrial hot air blower controls
- Heated mat temperature profile control
- Solid state power control
- HMI control of multi-zone heaters

### Automotive

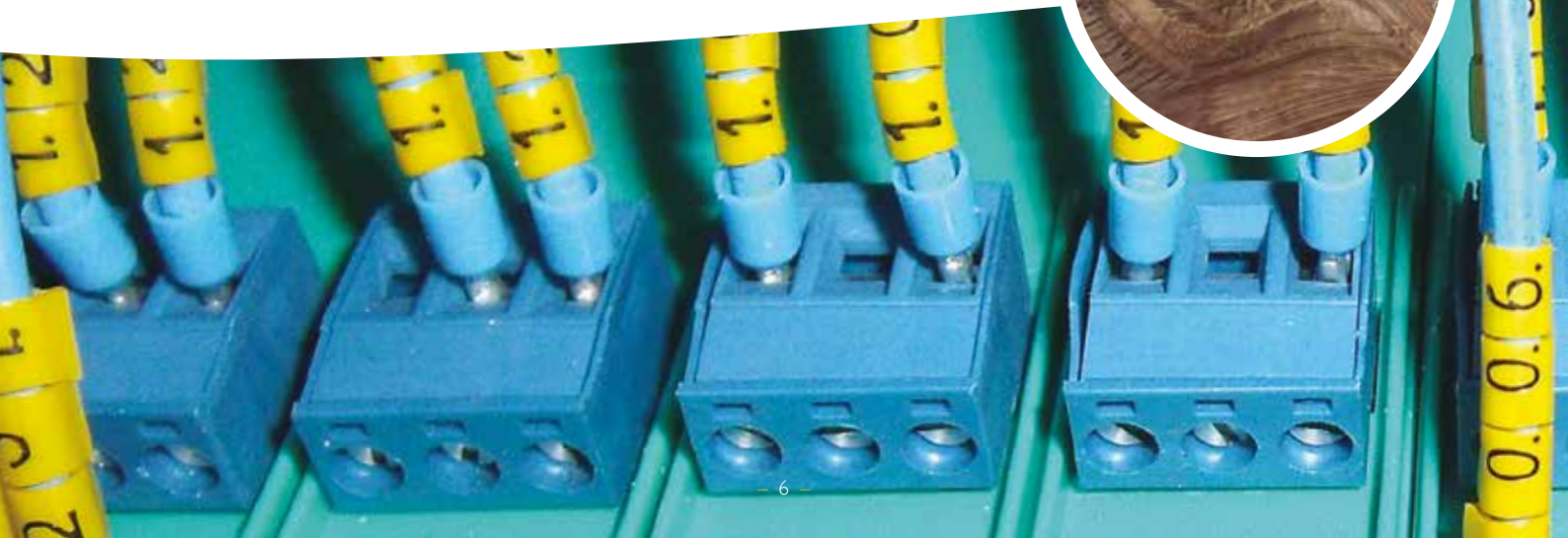
Many of our control systems are used either directly by automotive manufacturers or within their supply chain network. These control systems include PLC sequence control automation as well as temperature control. The complexity of our panels can vary from a simple pneumatic actuator pressing an insert into a moulding to a hot air impingement system for curing adhesive bond lines on aluminium panels during body in white assembly.

- PLC control of jigs and fixtures
- Special purpose control system design
- PLC and HMI software
- System automation
- Updates to existing controls
- Product testing

### Processing Industry

In the mineral, aggregate and powders processing industry we have designed and manufactured control systems for many different types and scales of equipment ranging in size from a small ball mill to complete sand classification and blending plants. Our clients range from small UK based manufacturers to global players. Our experience in this field also allows us to offer both hardware and software upgrades to existing control systems.

- Blending & screening
- Classifier systems
- Conveyor controls
- Pump soft starts and inverters
- Remote monitoring of plant
- Event and alarm logging
- System upgrades
- Motor current monitoring



## Food & Beverage

We have produced many stainless steel control panels for use in the food and beverage sector. We are particularly experienced in providing temperature control systems as well as conveyor and pump control systems. Alongside our parent company The Force Group, we have developed a skid based heat recovery system to capture energy that would otherwise be considered a waste product.

- Hygienic panels
- Integration of PLC and drive systems
- Process product handling
- Packaging controls
- Stainless steel panels to IP67
- Meat production line monitoring
- Energy recovery controls
- Integrated process engineering



## Defence Contracts

We are proud to work with some of our country's defence contractors. Due to the unique requirements that these clients present, our designs and control panels have undergone extensive design review and testing phases. Our control systems are currently operating in both fixed and maritime applications. In these markets confidentiality and reliability are paramount.

- Systems built to customer specifications
- Contractual documentation
- Gas turbine ancillary controls
- Concept prototype systems
- Auxiliary pneumatic panels
- PLC and HMI updates of existing relay logic systems



## Industrial Process Automation

We have designed and built control systems in a whole range of industrial automation sectors. We have worked in the aluminium industry, including controlling die casting and material recovery systems. We also support customers in the plastics and rubber trade, supplying controls to OEM machinery builders of UPVC window CNC assembly and welding machines together with supporting local manufacturers in the extrusion and injection moulding industry.

- Extrusion machine controls
- Pallet loading systems
- Plastics industry machine panels
- Temperature controls
- Hydraulic press systems
- Positioning systems
- Servo controls
- Industrial saws
- Heat treatment systems



# Our expertise and the benefits to you

Controlsforce engineers have established a reputation for providing expert solutions to complicated control problems.

## Our Capabilities

As soon as you contact Controlsforce you benefit from over 30 years experience as specialists in the field of industrial instrumentation and controls engineering. Our highly trained team of technicians are on hand to provide high quality products using their expert knowledge and skills to deliver on every job. We are committed to providing our customers with control systems utilising the latest technology and quality components.

### Controlsforce has the complete portfolio

- Design and build manufacture service
- Specialists in temperature and PID control
- Machine automation
- Electrical schematic designs
- Mechanical control panel layout design
- PLC programming
- HMI programming
- VFD configuration
- PID loop optimisation
- Thyristor power control techniques
- On site commissioning
- Industrial instrumentation repair
- Data logging

All our control systems are built to the highest standards, with our in-house testing procedures ensuring outstanding performance and reliability. We have an extensive manufacturing facility comprising of assembly areas, plus a dedicated test and inspection station. We are proud to be British manufacturers based in the heart of the country with excellent transport links to all parts of the UK.





## Reasons to work with us

Controlsforce are specialists in their field. If you commission us to design and build your panels you can be assured of receiving quality branded components, selected, assembled and tested by experienced technicians to the most exacting standards.

## Delivering the total package

Our experienced design engineers have worked in the industry for over 30 years and initially trained as electronic engineers. This gives us a deep understanding of the inner workings of drives and PLCs that others may take for granted. We have addressed many problem areas that can be found within control panels and incorporated features to assist with on-going maintenance and support. We are a one-stop design and manufacture service, offering the complete solution from concept to sign-off.

## The complete loop

Many of our customers prefer a partnering systems approach to support their needs. Controlsforce are in a unique position to bring an integrated approach to this. As well as our controls and software expertise, working together with our parent company we can supply and install the complete controls package. A unique mix of expertise, products and services creates the perfect platform for controlling processes safely and efficiently, protecting both individuals and the environment from harm.

## Giving peace of mind

Our extensive industrial experience and detailed knowledge enables us to understand your needs. All our panels are tested under stringent conditions ensuring that every product leaving the factory is in perfect condition for our customers.

## Right solution, right price

Our manufacturer independence enables us to design and specify the most cost effective and reliable solution for your application. We try to not only meet your expectations, but to surpass them in everything we do. With our experience from many different manufacturing sectors, we can often look at problems from a different perspective. We relish challenges and have the tenacity to complete those demanding and tricky jobs.

## Rejuvenating machinery

A new control system can rejuvenate an old machine. Some machinery manufacturers try to make maintaining mechanically sound machinery uneconomic once it exceeds a certain age. At Controlsforce we offer a two part solution to this problem, repair or replacement.

Our engineers repair all kinds of faulty electronic equipment including instrumentation, drives, PLCs, and displays. We can repair cathode ray tube monitors or we can offer upgrades to colour LCD technology. We can also replace your control system with a modern equivalent.

As well as improved reliability, we can often incorporate other enhancements to machine operation that can improve cycle times, add a recipe structure or data logging functionality.



*We have the specialist skills and expertise to install, commission and optimise any of our control systems.*

## **Our products and services**

### **Consultancy and design**

We offer the following consultancy and design services:

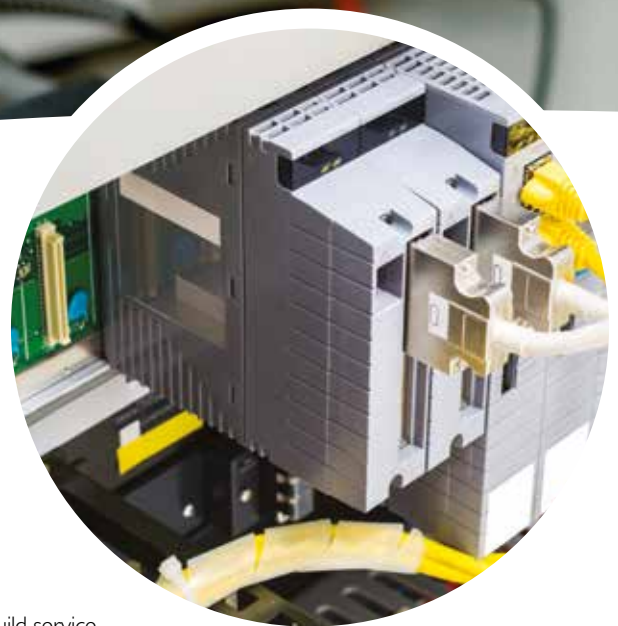
- Specialists in bespoke systems
- Electrical schematic design
- Control cabinet layout design
- PLC and HMI software
- Process optimisation
- Bespoke PCB design and build service

### **Software development & design**

Our software engineers design and develop applications to meet customer requirements in all aspects of control and functionality. Customer satisfaction is paramount so we will liaise closely with you throughout the process to keep you updated.

### **Quality assured**

You can be assured that before a panel leaves us, every screw and cable will be checked for tightness and the panel will be cleaned inside and out. In addition, all systems are electrically tested for safety and correct operation, results are documented and panels photographed before being packed for delivery.



## **Our products**

### **Control Panels**

Control panels for all industries  
Pneumatic valve panels  
Hygienic design control cabinets

### **Drives and Controls**

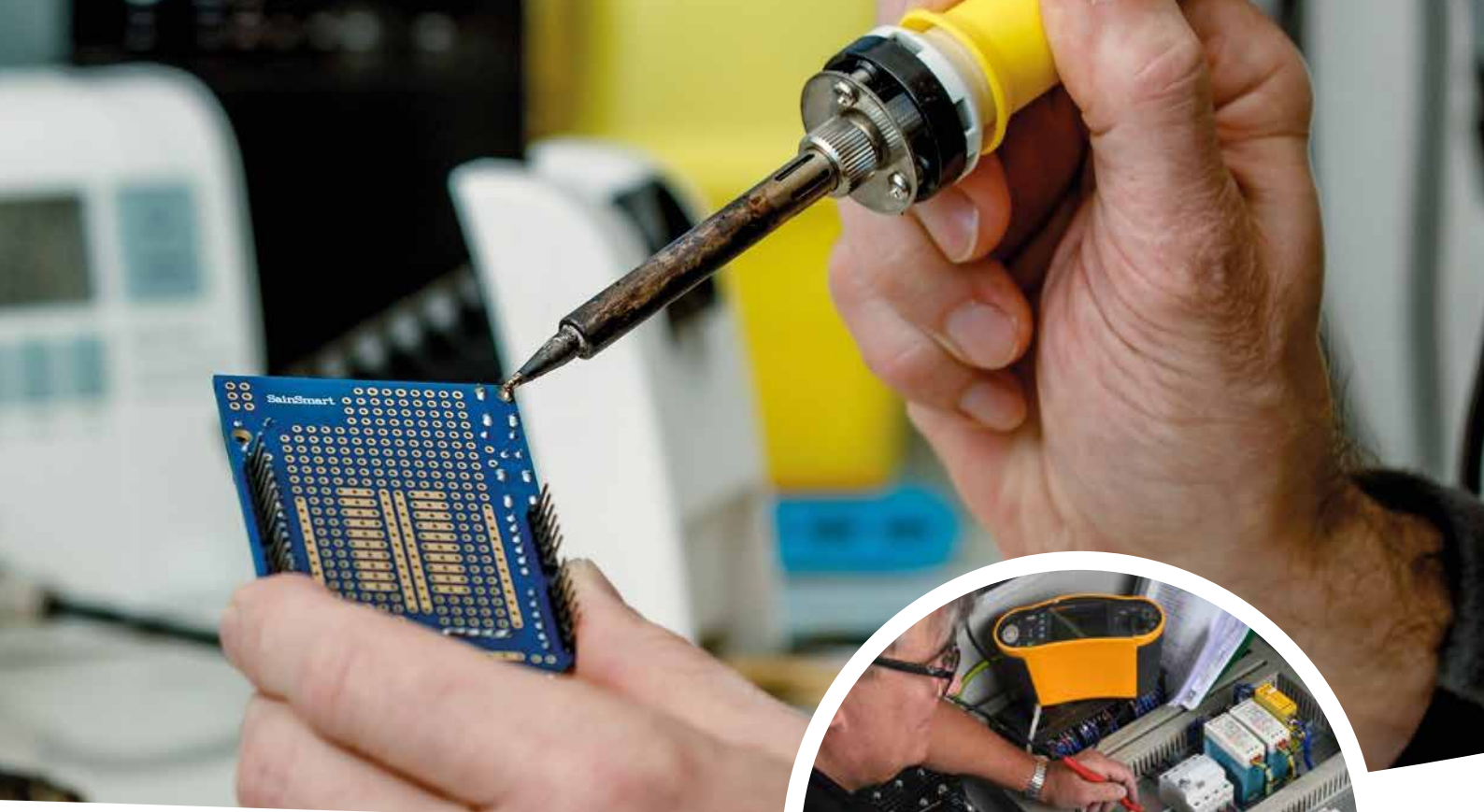
PLC/HMI programming and supply  
Low cost combined PLC/HMIs  
Variable Frequency Drives  
Motion Control  
Motor Control Centres

### **Process Automation**

Sensors & Transmitters  
Flow Sensing & Measurement  
Industrial & HVAC Control Valves  
Pneumatics and Solenoid Valves

### **Controls and Instrumentation**

Temperature and Pressure  
Controllers  
Custom made Temperature Sensors  
Custom made Looms and Cable  
Assemblies



## Repairs and fault finding

We have highly skilled electronic engineers on site so we can offer a cost effective alternative to OEM service exchanges. We perform component level repairs to all types of industrial control equipment, many of which are now regarded as legacy or obsolete by the manufacturers.

We can also offer on site diagnostics to investigate problems on all kinds of industrial equipment if required.

- AC/DC drives
- Soft starters
- PLCs
- I/O cards
- Temperature recorders
- Thermocouple welders
- Hopper loader control PCBs
- Temperature controllers
- CRT monitors
- LCD monitors
- Power supplies
- Tool heat controllers
- Motor control PCBs
- Dryer PCBs
- Timers
- Counters
- Machine operator Interface panels
- HMIs
- Measuring wands
- Remote control systems
- Handheld thermometers
- Temperature calibration service

## Electrical services and onsite commissioning

We have the specialist skills and expertise to commission and optimise any of our control systems. We offer all the advantages of big company support and back up whilst remaining firmly focused on the virtues of close customer contact and genuine personal service.

## Export markets

We have a broad knowledge of standard specification for electrical panel design for many countries as a large number of our panels have been made for export to USA, Europe, Asia and the Middle East.

- Machine operator interface panels
- HMIs
- Measuring wands
- Remote control systems
- Handheld thermometers
- Temperature calibration service

