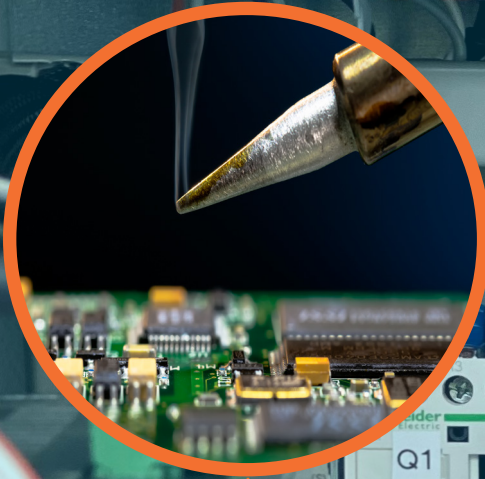


# Emolice



Control Panel Manufacture

Cable Assembly (CAS)

PCB Assembly

**What's Inside**  
Our Contract Manufacturing Services

PLC Programming

Box Build Services

Engineering Solutions

# WELCOME

As a multidiscipline engineering business, Emolice Contract Manufacturing Solutions (Emolice) specialises in providing a comprehensive range of contract manufacturing services for the electronics and manufacturing industry.

With ISO 9001 accreditation, Emolice can cater to the manufacture of a control panel built to customer design, to full cable assembly services, box builds, PLC programming, mechanical design & assembly, complete control systems, PCB assembly, and many other manufacturing services.

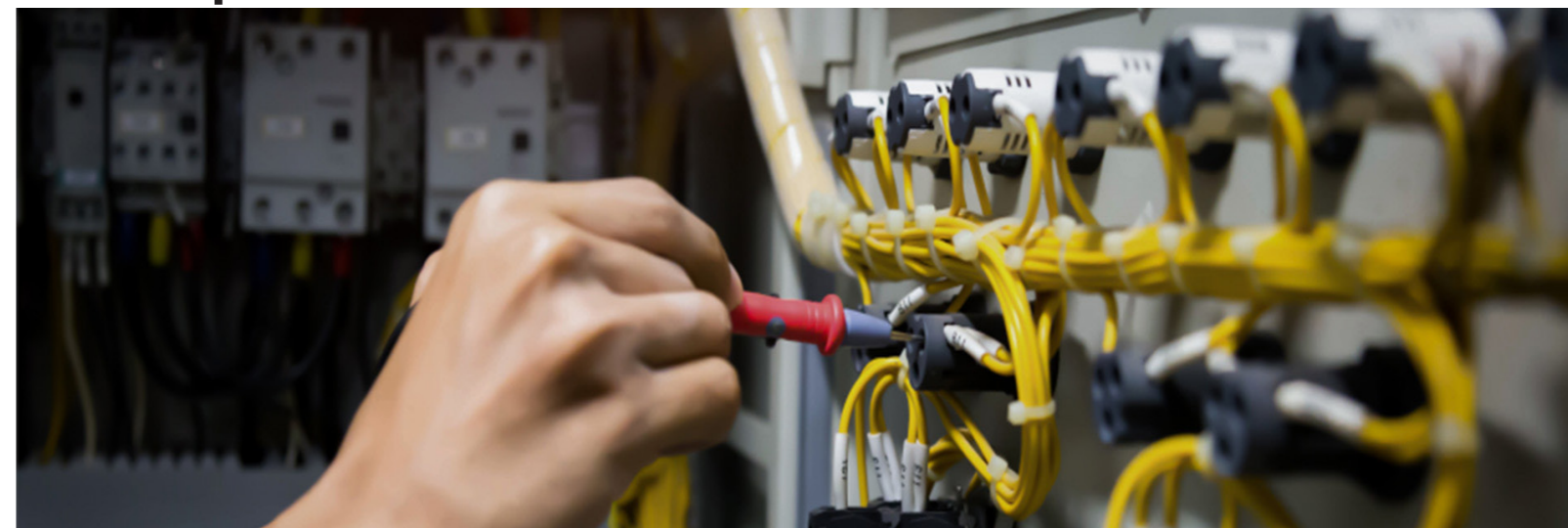


Emolice's background in industrial automation as allowed us to create a gateway into the manufacturing industry, where our sister companies CAS (Cable Assembly Solutions) and Control Panel Solutions were combined under the umbrella of Emolice Contract Manufacturing Solutions.

As a UK manufacturing company, Emolice offers a range of services that can be customised directly to the client. With a team of experienced software engineers and manufacturers to help design, build and implement products and services, Emolice caters to a variety of industries. From Consumer Electronics, Industrial Applications, Transport Applications, the Health Industry, Energy & Power Facilities, Water Treatment, Agriculture Services and many more.

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## CAS

Our cable assembly process is simple. Our CAS team (Cable Assembly Solutions) are a build to print organisation (we do not design your product but we are specialists in producing it for you). We can either work to your drawings and Bill-of-Materials (BOM) or our in-house CAD technicians can create drawings for you.

Once we have the drawings and BOM we can typically produce your first sample to approve in less than a week. CAS manufactures electrical cable assemblies serving the Industrial Automation and Electronic products markets. We supply a wide variety of cable solutions to both the UK and overseas. Our cable experience includes:

- Audio Cables
- Battery Cables
- Braided Cables
- Box Build Cables
- Cable Assemblies
- Coaxial Cables
- Heavy Duty Cables
- High Voltage
- Industrial Cables
- Mains Cables
- Mains Cables
- Multicore Cables
- Ribbon Cables
- RF Cables
- Sub-Assembly
- Underwater Cables
- Vehicle Cables
- Wiring Looms

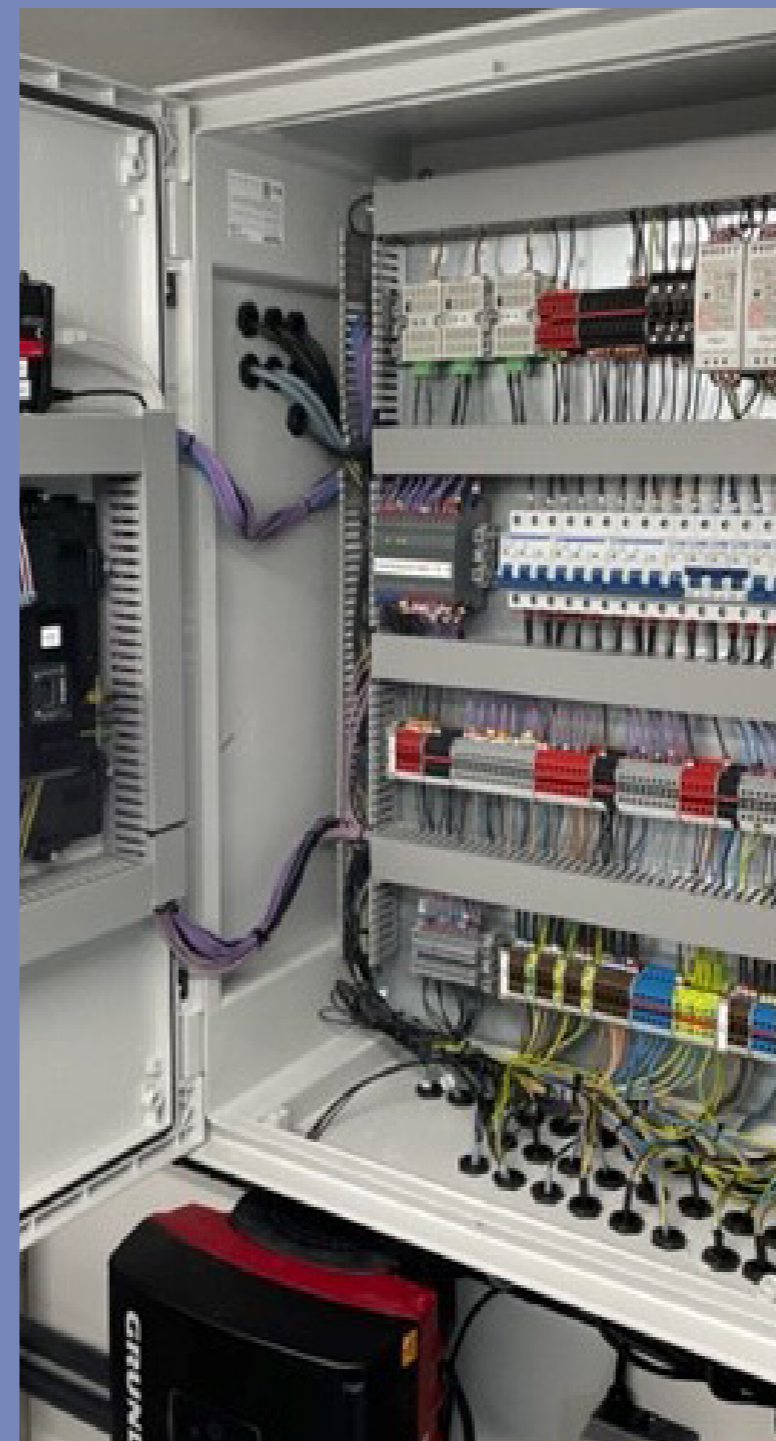


## Control Panels

Emolice builds panels for both our own solutions and for our clients. We have extensive experience in the design and build of a wide range of control panels including, Remote IO Panels, Machine Control Solutions, and Industrial Control Systems.

The team at Emolice Contract Manufacturing Solutions is the bedrock of the Emolice company. Combining years of experience with dedication and proven quality, the Emolice team are ready to take on a multitude of challenges.

Supporting our control panel builds, our software engineers have successfully delivered projects across numerous industries for numerous clients, and our qualified specialist technicians have been a part of thousands of completed products, whether it's been a control panel, box build, wiring loom, or a bespoke control system. We take great pride in the work that we do, and it's all thanks to our committed and highly skilled team of manufacturers, designers, software engineers, sales teams, shipping crew, operations managers and many more!



# INTRODUCTION

# EMOLICE STANDARDS

Emolice Contract Manufacturing Solutions subscribes to the gold standard for best practice in cable and wire assembly. This gold standard is IPC/WHMA-A-620.



All of our assembly team are fully IPC/WHMA-A-620 certified and trained. All of our assemblers have passed an IPC exam to attain their certification, a qualification that is required to be retaken every 2 years,

ensuring our on-site assembly team are constantly working to the highest standards.

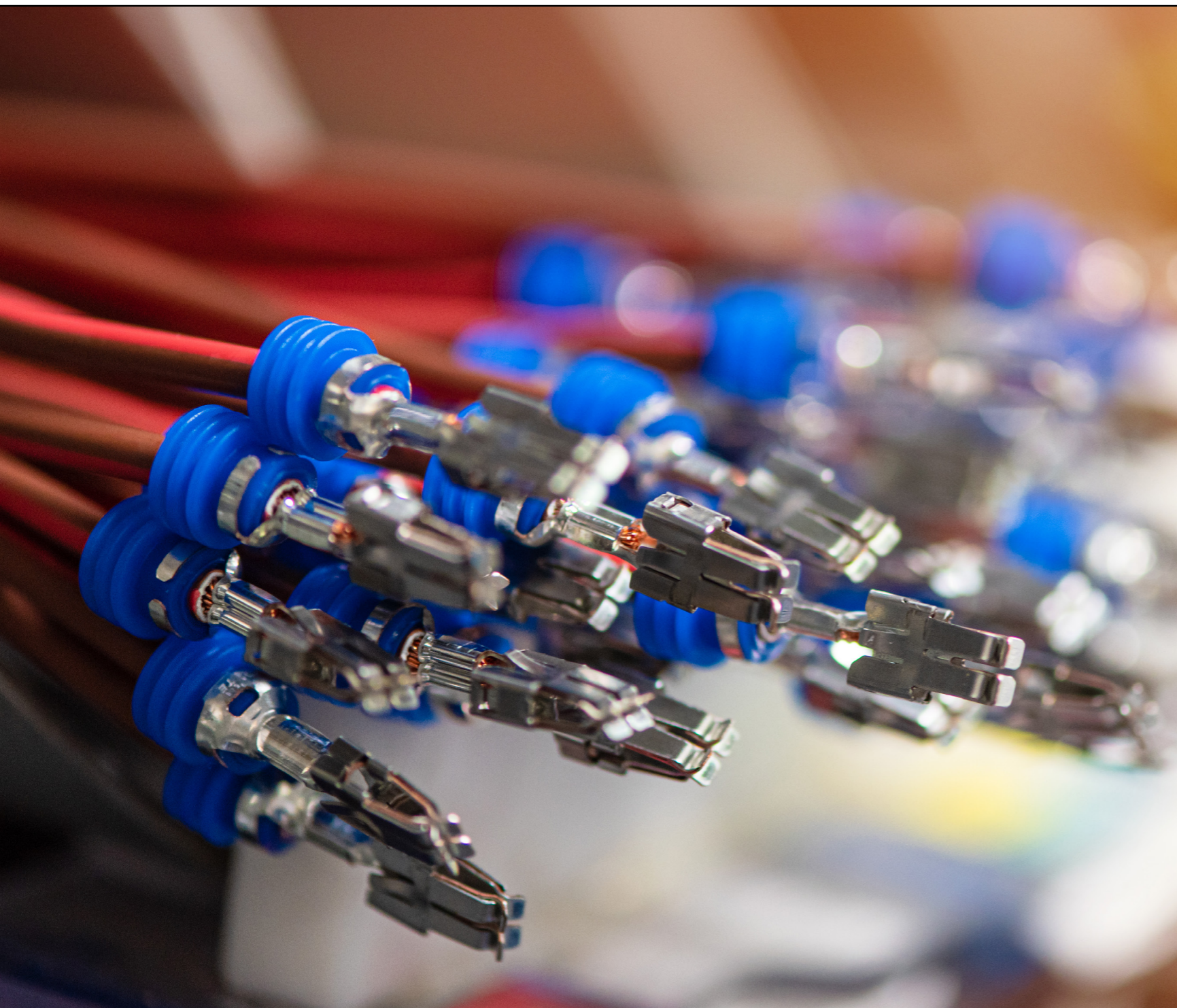
As our company continues to grow and evolve, continuous review and improvement of the way we function as a business is critical to our success, both now and in the future.

During the past years we have invested heavily in our business processes and the improvement of our fundamental operations; what we are doing, why we do it, how we do it and more importantly, how we can improve.

In recognition of our hard work, we are delighted to be able to say that our business exceeds the standards set out by the International Standards for Quality Management ISO 9001:2015.

Continuous performance monitoring and improvement of our Quality Management Systems provides assurance to our customers and employees that we are passionate about delivering our products and services through defined quality processes. We are also extremely proud to be a part of the Made in Britain community.

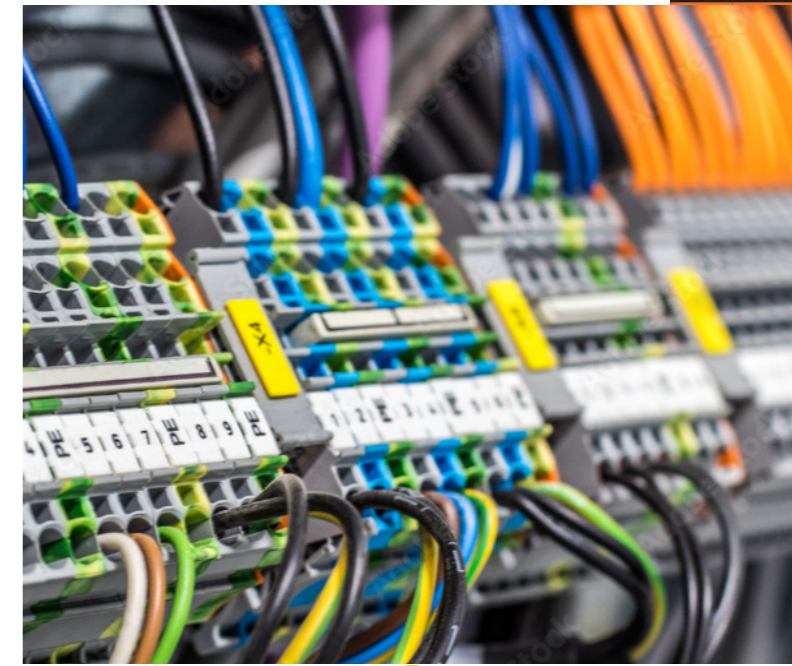
All products and assemblies from Emolice Contract Manufacturing Solutions are assembled on-site in our Reading facility.





Our Control Panel Solutions team specialise in the design, manufacture and overall implementation of control panels and control panel systems. With on-hand consultants to help you with your control panel, cabling, wiring or control system requirements,

Emolice Contract Manufacturing Solutions can cater to your control panel sub-manufacturing needs. All



manufacturing and as a top UK manufacturer, we thrive on our ability to deliver quality and excellent service, whilst also being able to offer complete control systems.

Emolice's team of professional software engineers can design and program software for a variety of automation instruments run by PLC's, starting with as little as a simple design brief.



*Dave, Jon and the whole team have been absolutely brilliant. We enrolled Emolice to help us carry out a large application, and the control panel system and service that they have delivered has been fantastic. With the ease of remote access, we can view all of our machines wherever they may be. They are also always available, nothing is too much trouble!*

DAVE, WATER TREATMENT TECHNOLOGY, 2021

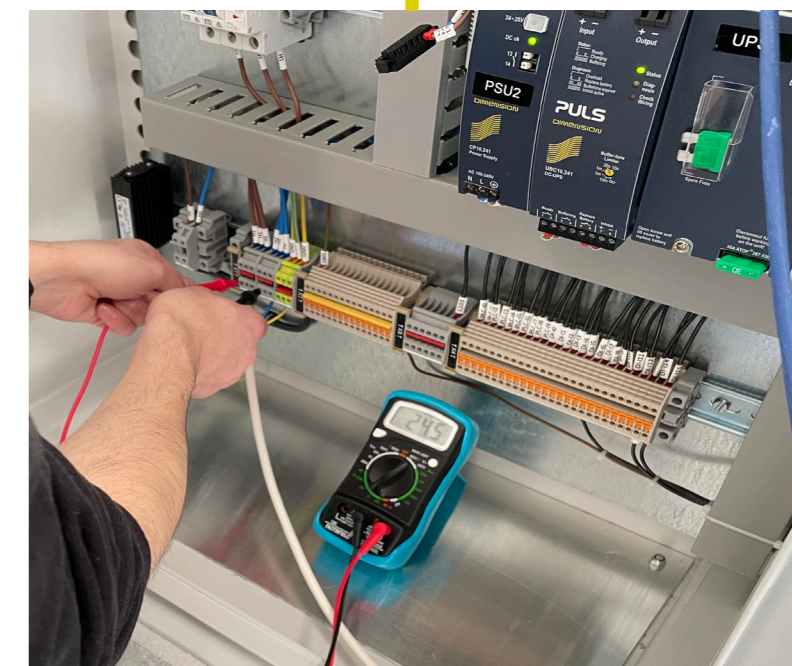
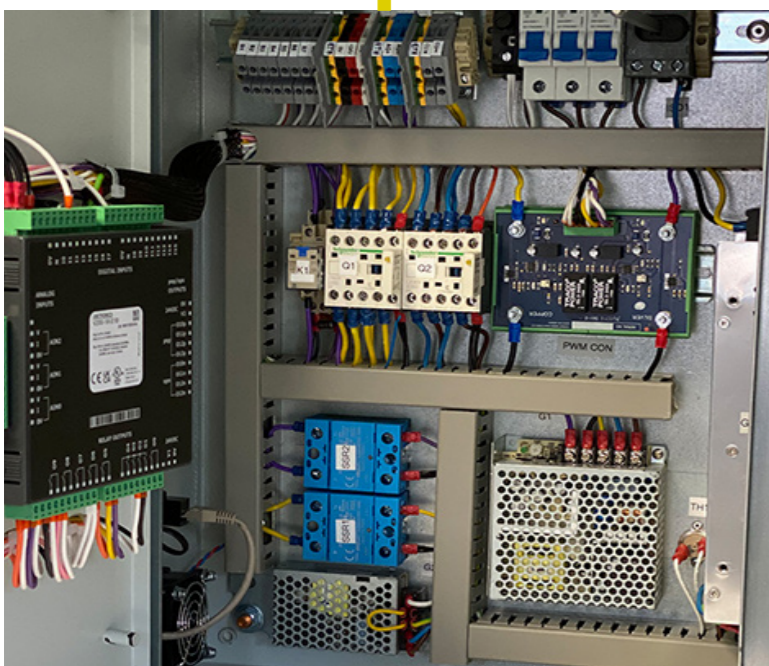
# CONTROL PANEL SOLUTIONS

we need to start is a basic brief or drawing/plan, and we can help further develop, design and construct your idea into a finalised and scalable product/solution or system.

As we continue to add a variety of industries and applications to our portfolio, our team of experienced software engineers and specialist manufacturers are constantly developing new and innovative ways to meet our clients' needs. Our passion is electronic contract

The result is a fully documented program that not only meets the needs of your application, but which is fully scalable to meet future demands.

Offering a wide range of electronic manufacturing services, we have extensive experience in the design, build and programming of control panels, including: Remote IO Panels, Power Distribution Panels, Machine Control Solutions, and complete Industrial Control Systems.



# PLC PROGRAMMING

We offer PLC programming for a number of PLCs, including Unitronics, Siemens, Schneider, Allen Bradley and more!



# CAS

The team at CAS delight our customers from many different markets with custom cable solutions and tailor-made box builds for technical electronic products. Our clients range from one-man start-ups with amazing ideas, to world leading companies working with the latest technology.

When the time comes to build your cable assemblies in quantity, we pride ourselves on the quality of our products, our fast turnaround times and our on-time delivery performance.

Typical services we perform for our customers include:

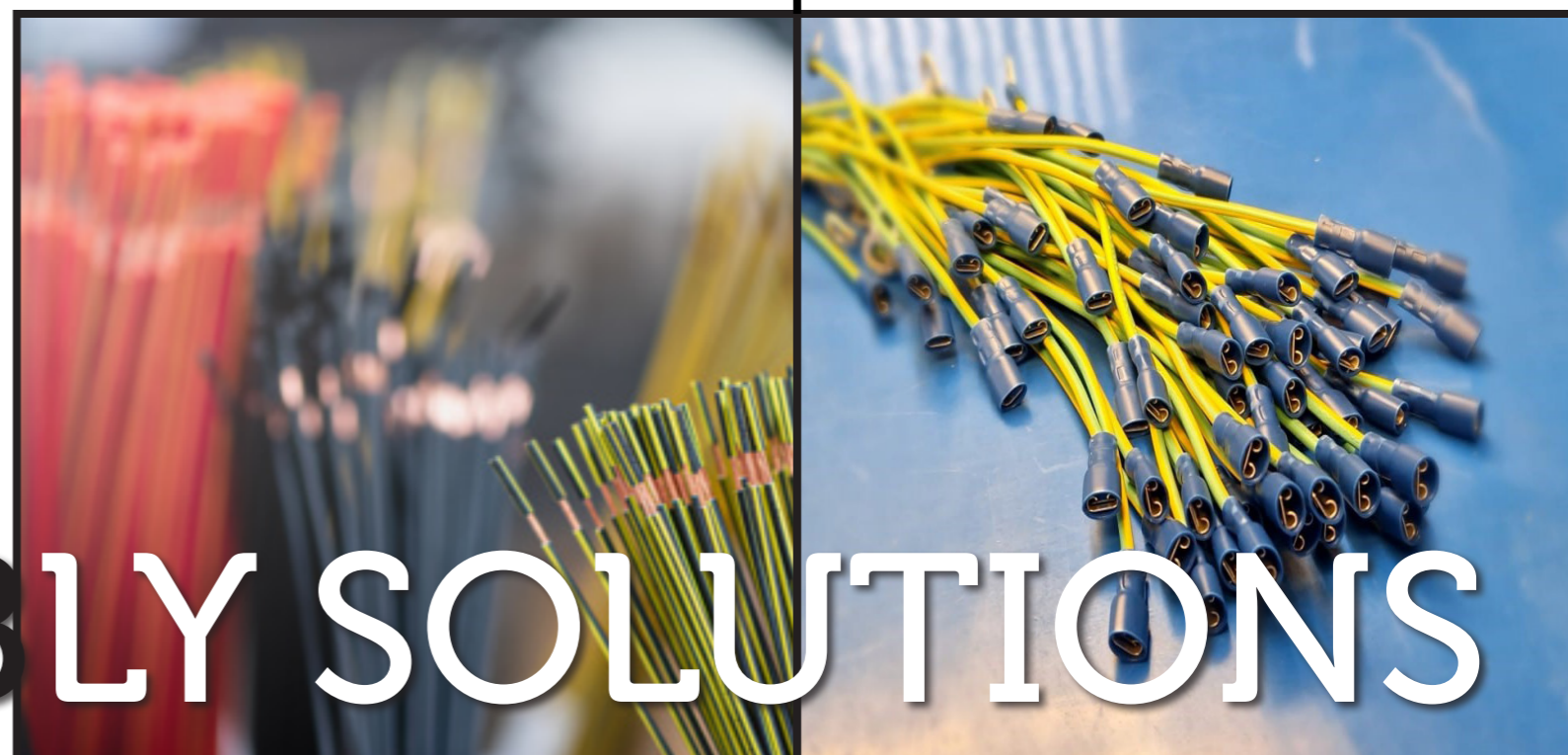
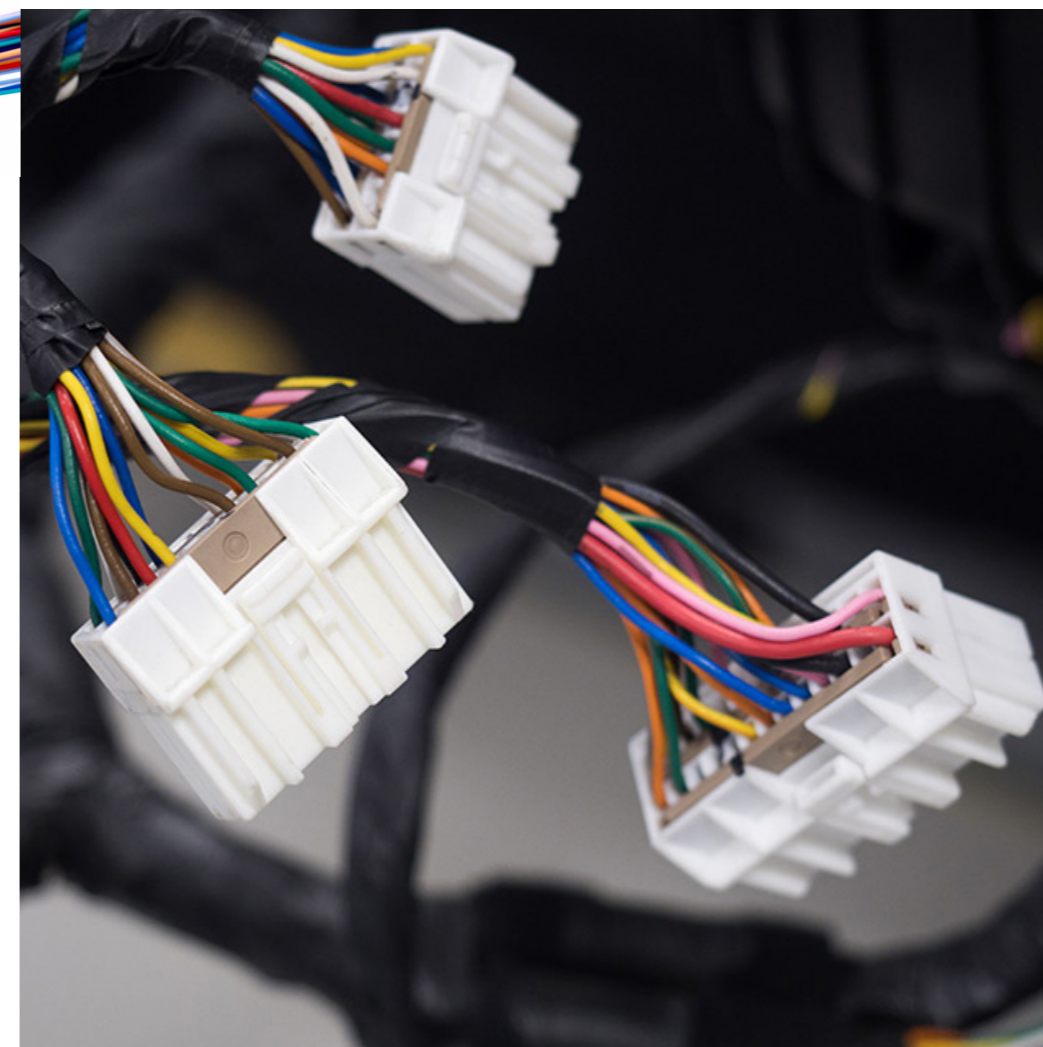
- Large batch cable assemblies using our highly automated machinery, keeping our prices competitive
- Digitally create drawings of your cables with our in-house CAD team

- Partial cable and wire preparation services

The volumes we produce are typically low to medium volume in the tens to thousands, but we are also flexible and can quote on other quantities, all with fast turnaround.

Cable Assembly Solutions also manufactures a wide range of wiring harness products. These wiring looms can be bound together by straps, cable ties, cable lacing, sleeves, braid, conduit, a weave or extruded string, depending on requirements.

Having many years of bespoke loom assembly experience, our wiring harnesses and wiring looms remain at a consistently high standard.



# CABLE ASSEMBLY SOLUTIONS



# 2D & 3D CAD SERVICES

Emolice's 2D and 3D CAD (Computer Aided Design) capabilities allow us to offer design services for custom enclosures, fixtures, frameworks and metalwork..

Our services also include the fabrication and assembly of metalwork.

The Emolice team are specially trained and certified in CAD software and mechanical assembly. This allows us to take on a range of different job sizes and ensure we have a fast turnaround for all our customers and various projects.



# BOX BUILDS

A box build includes all of the assembly work that is typically involved in an electromechanical assembly, but does not include the design and production of the printed circuit board (PCB).

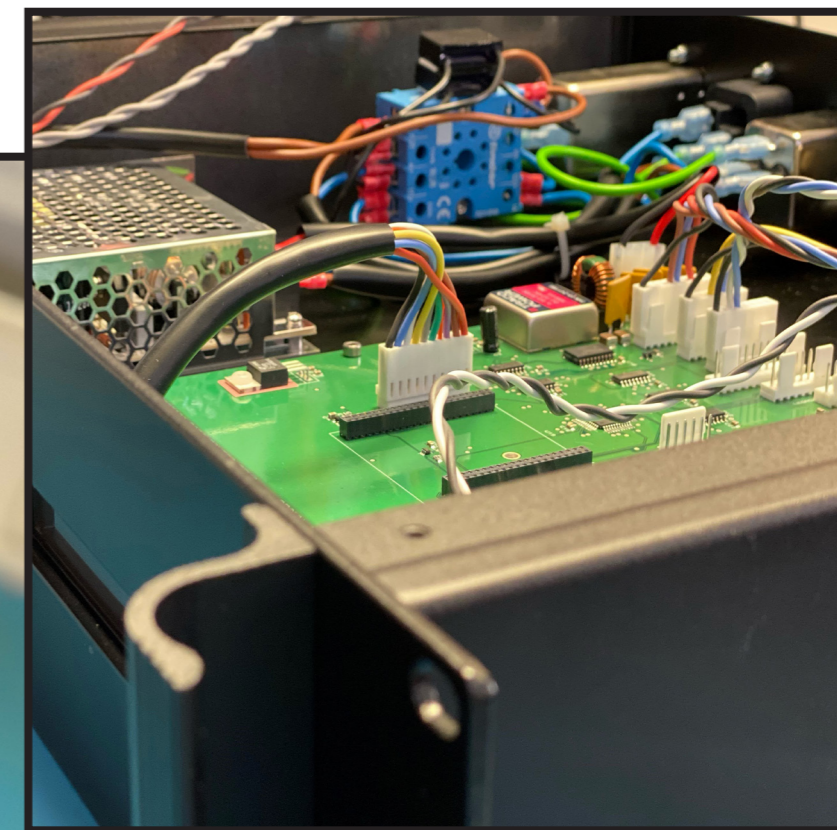
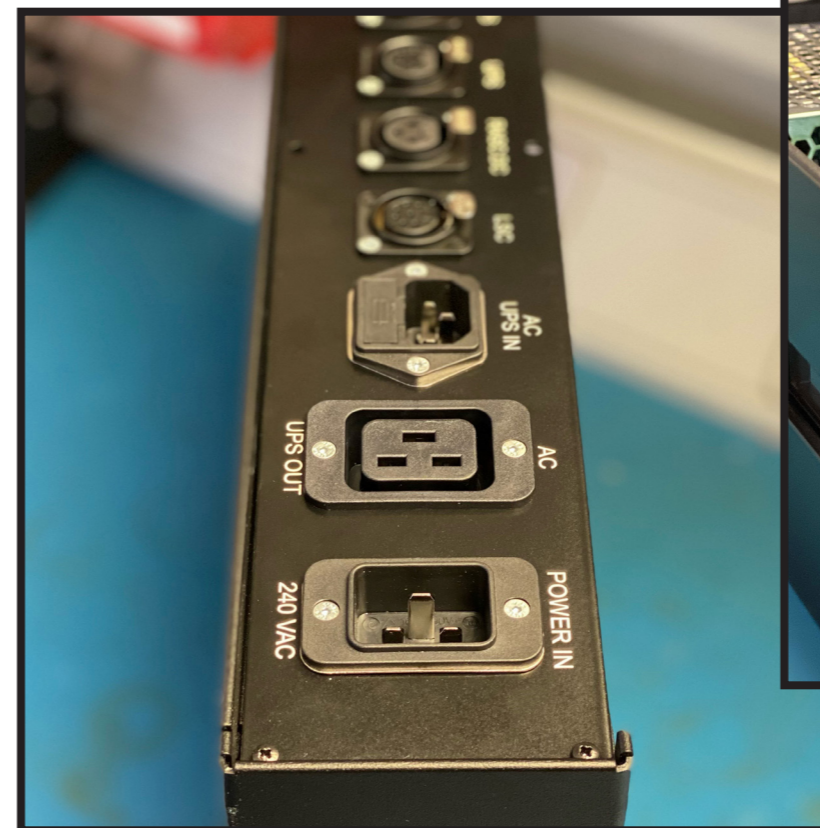
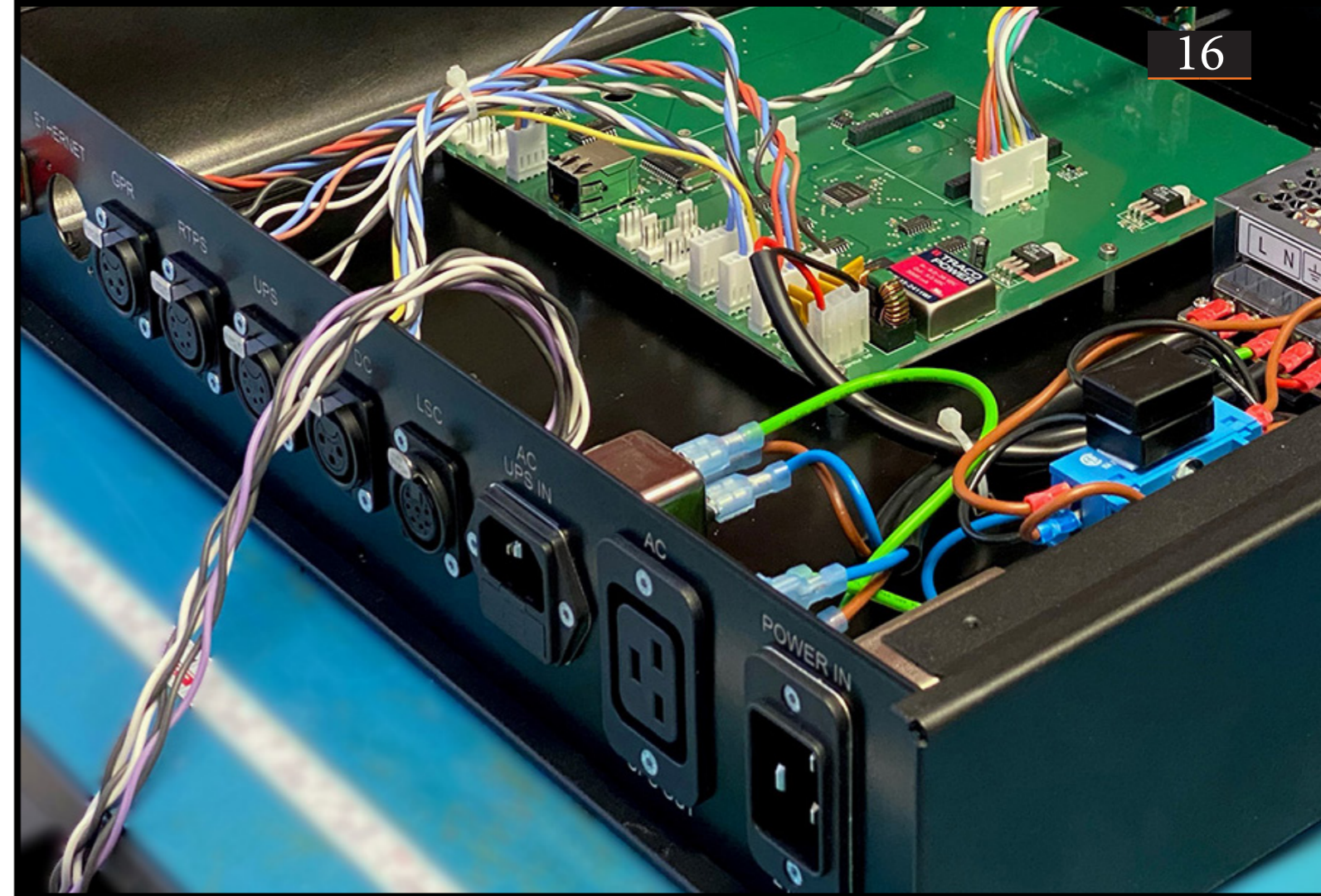
## THE BOX BUILD ASSEMBLY PROCESS

The assembly process varies from project to project and will typically include varying degrees of complexity at each step. A simple stage may be to place a printed circuit board assembly (PCBA) into an enclosure. The following step may include the complex task of connecting a PCBA to a user interface display and uploading firmware or software to the device.

The most common box build assembly processes include installation of sub-assemblies, installation of other components, routing of cabling or wire harnesses, and fabrication of enclosures.

The following is a list of common box assembly tasks undertaken by our team for our clients:

- wire preparation
- cable termination and assembly
- design and fabrication of enclosures
- electro-mechanical assembly
- system level assembly
- product assembly
- sub-level product assembly
- product packaging
- product labelling
- product testing
- software and firmware installation
- product configuration



# PCB

Another contract manufacturing service that we offer is the assembly of printed circuit boards (PCBs).

Our team of expert assemblers and manufactures can build and produce your PCB from your supplied Gerber files or a BOM (bill of materials).

PCB assembly is a precise operation, and our team of specialist assemblers not only produce PCBs, but also provide inspection and testing.

At Emolice Contract Manufacturing Solutions, we specialise in electronic manufacturing. We have streamlined our manufacturing methods in order to assemble PCBs for small to large size orders with quick and efficient turnaround.

Combining a blend of expertise and personal assembly from our highly experienced and dedicated team, all of our PCB assemblies are carried out in-house at our Reading facility.



## Contact Us

2a Achilles House,  
Calleva Park,  
Aldermaston,  
RG7 8RN

[sales@emolice.com](mailto:sales@emolice.com)  
01344 266530



QMS  
Certificate No: 357482020

