Providing market leading innovative and well engineered solutions, specialising in Resin Transfer Moulding and Resin Infusion processes
Company Introduction
Composite Integration Ltd provides market-leading and innovative solutions to the composites industry, specializing in Resin Transfer Moulding and Resin Infusion processes.
Research and technology has become a pivotal part of our business and it is this that has enabled us to continue to innovate and achieve market leading results.
Our team includes a high percentage of graduate engineers with a range of specialities ranging from equipment and tooling design to PLC programming and electrical control systems.
Founded on this background of practical experience and targeted development, we offer a full range of RTM and infusion machinery and ancillary equipment and materials supported by comprehensive tooling and training services.

Our products include
• Equipment for Resin Transfer Moulding
• Equipment for Resin Infusion
• Vacuum equipment
• Tooling (composite and metal)
• Materials

Our services include
• Commercial R&D
• Tooling design
• Process control and optimisation
• Monitoring systems
• Training

The unique and award winning Ciject® equipment range is supported by a comprehensive array of ancillary products and services.

The scope of our work includes projects in the Automotive, Marine, Wind and Tidal energy, Aerospace, ‘Off-Highway’, Sports, Architectural, Rail and Defence industries.
Projects have varied from tool manufacture through to complete automated production moulding cells.
Injection equipment

The Ciject® range of RTM equipment combines ergonomic design with the highest quality engineering. The Ciject® range of injection equipment is widely acknowledged as being the most sophisticated available, and combines award winning design with the highest quality engineering.

Infusion equipment

The Ciject® range includes highly innovative equipment for delivering mixed resin into infusion processes. Using our unique IMPS pressure control system, these machines offer unparalleled levels of control and automation.

This development is based around the use of in-mould sensors (IMPS) to provide accurate control feedback and the technique is now used to manufacture some of the largest composite structures currently in production.
Vacuum equipment
We offer a wide range of vacuum pumps and ancillaries for RTM and Infusion processes. We have the experience to specify the most appropriate type of system for each process with options for pumps, control systems, catch pots, pipe work/connections, leak detection and measurement. Our unique In Mould Pressure Sensor (IMPS) range not only enables accurate process measurement but can also be integrated into our Ciject® machine range to provide feedback for accurate process control.

Ancillary equipment
A comprehensive range of ancillary process equipment and mould building accessories including:

- Injection Valves
- Ejector valves
- Mould inserts
- Vacuum catch pots
- Material conditioning and degassing tanks
- Heating systems
- In Mould Pressure sensing systems (IMPS)
Tooling

Composite Tooling
Composite moulds for RTM, VRTM and Infusion processes built for a wide range of applications.

Metal Tooling
We have broad experience in the design and specification of machined metal tooling. Working with carefully selected specialist machining partners we can supply tooling for both production and R&D processes.

Test Panel Tooling
A range of tooling designed specifically for R&D and laboratory use. Available in various configurations with a range of pressure ratings, temperatures and instrumentation.

Materials
A range of materials used in the mould making process as well as the Diatex range of vacuum bagging consumables.
- A comprehensive range of mould seals
- Mould inserts for composite and metal tooling
- Calibrated sheet wax and wax filler
- Vacuum bagging materials
Training
Composite Integration Ltd provides practical technical support, training and consultancy in all aspects of ‘closed-mould’ processing.
Training in mould construction is available in the form of structured courses and/or practical on-site assistance. The standard Training Course consists of a mixture of theoretical and practical work, and is designed to give a practical basis for mould builders, an understanding of the design requirements for the composite component designer, as well as detailed knowledge of the moulding process in general. Specific training can also be provided in the operation and maintenance of equipment.

Research and development
Our production solutions are founded on practical research and technology development. Our engineering design team bring a broad range of specialist qualifications and a wealth of practical experience to customer-driven projects, new product development and commercial R&D. Ranging from specific testing of mechanical components to high level process development, R&D is the foundation for all our commercial activities.
We operate worldwide via a carefully selected network of distributors. International contact details for each region are available on our website. Alternatively call our office and we will be happy to help.