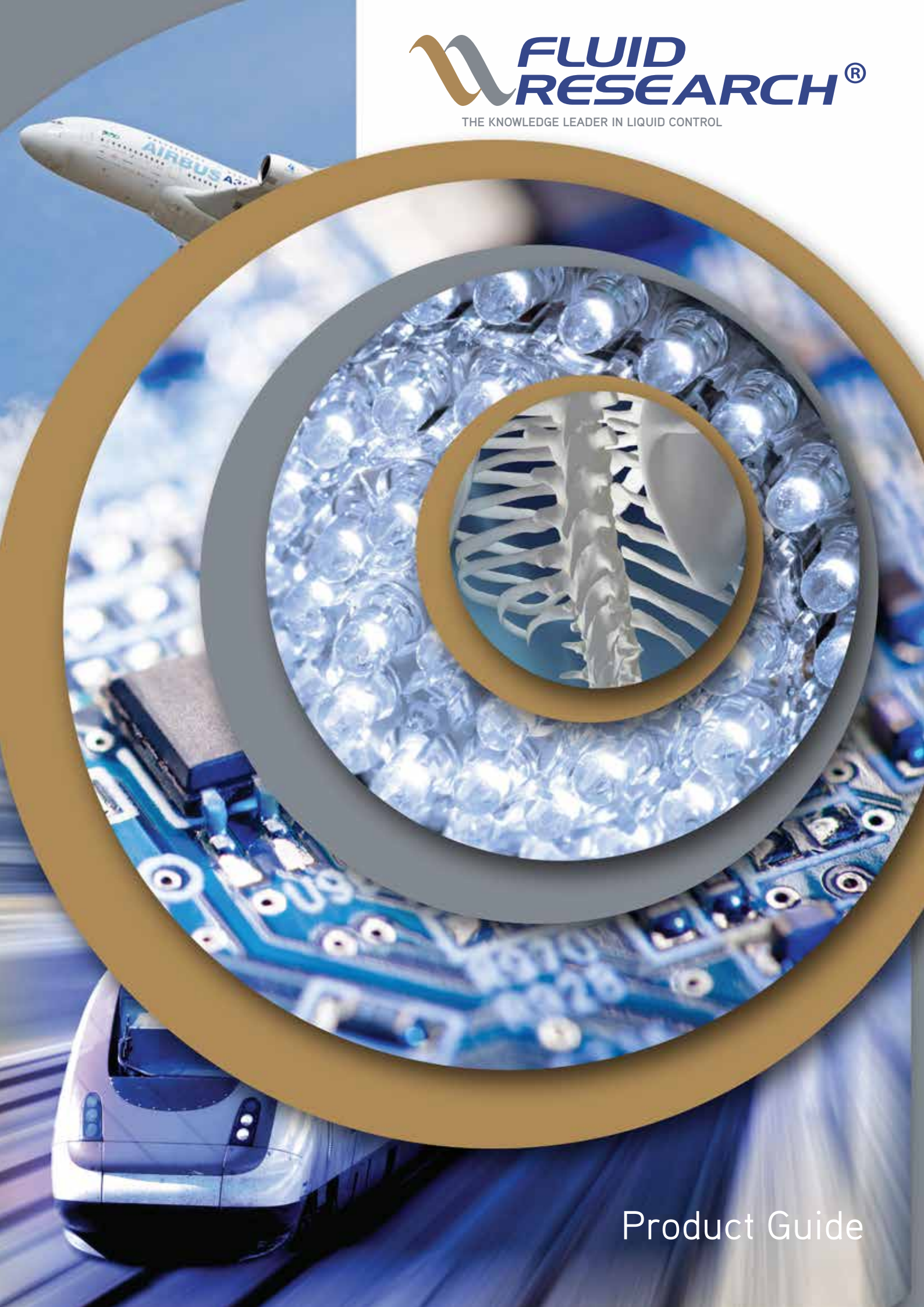




THE KNOWLEDGE LEADER IN LIQUID CONTROL



Product Guide

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Fluid Research Limited is a market leader in innovation, design and manufacture of metering, mixing and dispensing machines. Specialising in automated processing systems to handle epoxies, polyurethanes, silicones, acrylics as well as any one or two component resin systems.

Our core product range is supplemented with the capability to custom build bespoke machines using our Posiload™ piston Posipump™ technology, designed in our 3D design studio. As a UK manufacturer with in house engineering and CNC facilities we are able to ensure the quality of design and build is at the highest level.

We manufacture machines for a diverse range of industries including aerospace, marine, transport, wind energy, solar power, electronics, and automotive.

With over 40 years of experience of building high quality mix and dispensing equipment FRL also offers a comprehensive customer support package. We have our own team of field service engineers that are on hand to commission and maintain your machines in situ.

All of our mix and dispense machines can be manufactured with custom options to suit your specific production needs. Please go to our website to see the full list of options for each of the machines.

LC50BP	The Twinflow LC50BP is a cost effective, entry level machine. It has a parallel fixed ratio drive mechanism ensuring consistent processing of material from low to medium viscosity.
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Ratio	1:1 to 2:1
Shot size	5cc to 50cc
Viscosity	Low to medium materials
Ratio system	Parallel fixed
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



LC50PFR & LC120PFR	Fixed ratio metering, mixing and dispensing machines and are pneumatically powered and controlled, utilizing our latest parallel drive system.
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Ratio	1:1 to 10:1
Shot size	LC50PFR 5cc to 50cc LC120PFR 5cc to 120cc
Viscosity	Low to medium
Ratio system	Parallel fixed
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



LC50FR & LC120FR	Fixed ratio machines, digitally controlled utilising PLC, HMI touch screen technology enabling a wide range of electrical accessories and easy robot interface.
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Ratio	1:1 to 10:1
Shot size	LC50FR 1cc to 50cc LC120FR 5cc to 120cc
Viscosity	Low to medium
Ratio system	Parallel fixed
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



Twinflow Micro	The Twinflow MICRO utilises Posiload™ positive displacement metering pumps and precision rod pumps. It is available in a fixed or variable ratio format.
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Ratio	1:1 to 50:1
Shot size	0.1cc to 25cc
Viscosity	Low to medium
Ratio system	Fixed & variable
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



*Stated ratio ranges & shot sizes are dependent on pump combination

Twinflow FR1 A compact model incorporating the Posiload™ metering pumps. These pumps have a proven track record for performance having been used successfully in our machines worldwide.

Ratio	1:1 to 11:1
Shot size	1cc to 70cc
Viscosity	Low to medium
Ratio system	Fixed & variable
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



FR300 & FR1200 Medium and high output, fixed ratio machines. With a modular design they meet the needs of today's high performance, high accuracy manufacturing industry.

Ratio	1:1 to 25:1
Shot size	3cc to 360cc
Viscosity	Medium to high
Ratio system	Fixed & variable
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



Posiflow DXE2 Incorporates the latest PLC control technology & high-precision gear pumps, a versatile, compact bench mounted machine capable of metering, mixing & dispensing most 2 part resin systems.

Ratio	1:1 to 100:1
Volume per minute	250cc/min to 2L/min
Viscosity	Low to medium
Ratio system	Variable
Pump technology	Gear
Options	See technical specific sheet



Posiflow DXE60 Precision gear metering pump technology with the latest PLC software control. Ideal for pumping & metering two & multi component liquids which are then mixed in an inline mixing head.

Ratio	1:1 to 100:1
Volume per minute	250cc/min to 60L/min
Viscosity	Low to medium
Ratio system	Variable
Pump technology	Gear
Options	See technical specific sheet



DFR20 & DFR200 Ideal for dispensing viscous sealants & adhesives. For materials direct from 200L or 20L pails where the base material is non-pourable, with a viscosity level in excess of 1,000,000cps.

Ratio	1:1 to 25:1
Shot size	Part A dispense from 20L or 200L pails
Viscosity	Medium to high
Ratio system	Fixed or variable
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



Twinflow EVR The ultimate resin metering & mixing machine for vacuum de-gassing & heating requirements. Combining well proven Posiload™ metering pump technology with the latest PLC software control.

Ratio	1:1 to 100:1
Shot size	1cc to 150cc
Viscosity	Low to medium
Ratio system	Variable
Pump technology	Posiload™ (Piston) Posipump™
Options	See technical specific sheet



Products sold by Fluid Research Ltd are subject to ongoing development and improvement. The right is therefore reserved to alter specification without notice.

Fluid Research's partners for resin dispensing

Fluid Research offer a full range of automated dispensing equipment which includes robots. The AEB and Fisnar robots provide precision application of resin adhesives, sealants and encapsulants. These Systems offer excellent quality to price ratio, flexibility in their design and most of all, a simple, user friendly interface. These features allow even the smallest business to take advantage of automation. Fluid Research bring these elements together with dispensing technology to supply a complete bead or dot dispensing package.

Fluid Research also supply Techcon time and pressure fluid dispensing products and provide dispensing components, ranging from disposable accessories to complete microprocessor controlled dispensing systems, and precision valves. Whether your goal is cost savings or process improvements, we can tailor a solution for your application needs.

To complement Fluid Research's mixing equipment range we are pleased to offer an extensive selection of disposable static and rotary static mixers as well as shear action dynamic mixers. Contact us to request our separate mixing nozzle brochure.



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