



custom

development

systems

microfluidic instrument
design



Innovators in microfluidic solutions

How can Dolomite help you create a complete microfluidic system?

Dolomite's experienced design and engineering team has many years of experience collaborating with partners, developing systems and instruments that contain microfluidic components. Whether you are an established instrument manufacturer or end user, Dolomite has the expertise and experience to turn your concept into reality.

Benefits of developing a microfluidic system with Dolomite

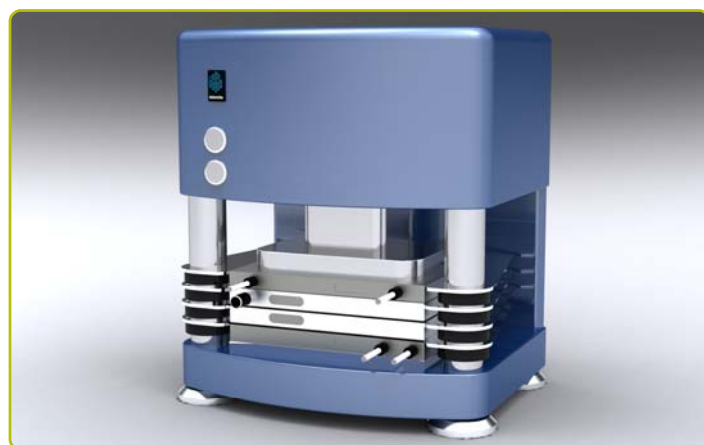
- **World leader in microfluidic applications:** Dolomite strives for excellence, employing the best people and the best technology.
- **Turnkey solution:** As well as offering microfluidic components, Dolomite offer a complete turnkey process for product engineering including all software, mechanics, electronics, firmware, touch screen, handheld devices, etc.
- **Experienced design team:** Dolomite's design team has many years of experience in designing a wide range of complete microfluidic systems.
- **World class microfabrication facilities:** Dolomite has excellent microfabrication facilities with precision glass processing facilities, clean rooms and application laboratories.
- **Global company:** Team of highly trained employees and distributors across the world.
- **Commercial perspective:** Highly motivated to ensure that customers develop complete systems that enjoy success in the real world.
- **Better value:** Helping customers to develop smaller, more powerful and more cost effective microfluidic systems.
- **Excellent service:** From concept through to completion, Dolomite has all the expertise and experience to get the next idea off the drawing board and into the market place.

Developing a complete microfluidic system with Dolomite

Dolomite's flexible engineering team can work with you to turn your instrument concept into a commercial reality. From the starting point of a feasibility study, Dolomite will demonstrate how the concept works at the microscale.

Dolomite's innovative design team will produce 3D product concepts, system schematics and cost estimates to ensure that the scope of the project is understood by all.

Following any necessary design approval, Dolomite will then develop all the software, control, mechanical systems, electronics, firmware, touch screen, hand-held, and battery operated devices required for the end product. The final deliverable can be a fully engineered instrument with complete manufacturing data pack ready for production.



Complete system examples

Dolomite's design and engineering team has successfully developed many complete microfluidic instruments and systems.

Below is a selection of recent examples of Dolomite's system and instrument development work:

Fully automated instrument system

Development of a fully automated instrument system that runs crystallization experiments on disposable microfluidic chips for a North America client.

Microreactor system

Design and fabrication of a microreactor system for high temperature nano-material growth for a university in North America.

Droplet generation system

Development of a droplet generation system for the manufacture of bio-polymer microparticles for a North American organisation.

Liquid based purification system

Design and manufacture of a liquid based purification system for a leading technology company in the UK.

Applications

Dolomite works with partners in a wide range of application areas and is focussed on delivering "real world" solutions for customers around the world. Application areas include:

- Clinical diagnostics
- Academia
- Point of care systems
- Drug delivery
- Healthcare
- Biotech
- DNA analysis
- Genomics
- Drug screening
- Protein crystallization
- Environmental testing
- And many more...

Contact Dolomite for a consultation with one of our engineers...



Left: Flow Liquid Liquid Extraction System

Above: Microfluidic DNA analysis system

Right: Fully automated microreactor system



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