



mitos

standard microfluidic
products

pumps

pumps for microfluidic
applications



Innovators in microfluidic solutions

What is the Mitos Range of Microfluidic Pumps?

Dolomite offer the Mitos range of standard pumps to help you evaluate your microfluidic concepts quickly and easily. This includes styles such as syringe, electro-osmotic flow, peristaltic and pressure driven pumps. In addition to these standard products, Dolomite offer a variety of custom designed pumps to specifically meet your requirements.

Syringe Pump benefits

- **Flexible:** Use as 2 refilling pump channels or 1 continuous pump channel.
- **Wide flow range:** From 0.5µl/min to 10ml/min.
- **Automated reagent addition:** Dispense simply by volume or flow rate over a time period or create advanced flow profiles.
- **Easy to use on its own or with PC software:** Twist and click control knob and large display, or PC control.
- **Versatile:** Selection valves deliver 10 different fluids to 1 channel, or the same fluid to 10 different channels.
- **Excellent chemical compatibility:** PTFE, PCTFE and glass.

Micro Electric-Osmotic Pump benefits

- **Extremely low flow rate:** Offers a minimum flow rate of 0.1µl/min, minimising pulsation issues and allowing precise control.
- **Flexible:** Ideal for integration into complete systems, easily and efficiently.
- **Low power and compact:** Ideal for portable, handheld, and/or battery powered devices.
- **High pressure performance:** Can operate up to 2000kPa.

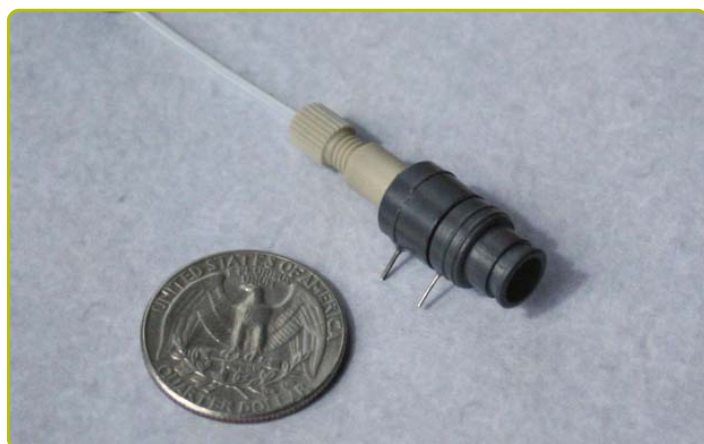
Other pumps

As well as syringe pumps and electro-osmotic micro flow pumps, Dolomite offer a wide range of other pumps including pressure driven pumps, peristaltic pumps and gas pumps.

Dolomite also design and manufacture pumps to the user's requirements. Whether this be producing a pump that has a certain cost, flow rate range, smoothness of flow, or chemical compatibility, Dolomite is committed to meeting the user's specification.

Other microfluidic devices

Dolomite also offer a Mitos range of standard products including chips, connectors, valves, etc.



A selection of Dolomite's range of microfluidic pumps includes:

Mitos Syringe Pump	3000069
Mitos Syringe Pump XS	3000122
EO Pump Low Flow High Pressure (Pack of 2)	3000125
EO Pump Microchip Mount, 1.5 mm (Pack of 5)	3000126
EO Pump Microchip Mount, 2.2 mm (Pack of 5)	3000127
EO Pump Medium Flow (Pack of 2)	3000128
PWM Power Supply for EO Pump - 1 Channel	3000129
PWM Power Supply for EO Pump - 4 Channel	3000132
Miniature Peristaltic Pump, 0.45ml/min	3000182
Custom Microfluidic Pumps	

Dolomite design and manufacture many custom microfluidic pumps. Dolomite's experienced design team will work with you to discuss how we can achieve your custom pump. Please contact us for more details.

Applications

The Mitos range of microfluidic pumps have been designed for applications such as clinical diagnostics, drug delivery and discovery, point of care systems, healthcare, biotech, etc.

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



Left: Micro Electro-Osmotic Flow Pump

Above: Electro-Osmotic Pump integrated with microfluidic chip and connector

Right: Dolomite's Microfluidic Syringe Pump



Dolomite Microfluidics

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