

For Medical Device OEMs: World-Class Peristaltic Pump Design, Engineering & Manufacturing Solutions

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Key Words

- Masterflex
- Peristaltic Pumps
- Tubing Pumps
- OEM
- Medical Devices
- Custom Pumps
- Custom Enclosures
- Custom Controls
- Concept Development
- Prototype Development

Today's leading medical device manufacturers often demand more than off-the-shelf flow control, fluid handling and transfer equipment. To meet the technical, performance and regulatory requirements of their new designs, custom solutions are often needed – custom pumps, custom enclosures, custom controls, and more. Rather than rely on merely an OEM pump supplier, manufacturers often need a knowledgeable and experienced solutions provider to partner with them throughout a product's development cycle.

Integrated solutions

Our world-class design engineers, R&D and production facilities can develop a flow control solution that integrates perfectly with your equipment. Thermo Scientific has decades of experience teaming with medical device manufacturers throughout entire product development cycles – often including custom engineering, prototype and concept development. We also continuously evaluate and review materials, manufacturing methods and techniques, in order to best satisfy our customers' technical and commercial needs.

Our high performance, highly innovative peristaltic pumping systems are key components in the products of a significant number of medical equipment OEMs worldwide – each providing the specialized fluid handling solution to best match our customers' exact specifications.

As a veteran solutions provider with ISO 13485 certification, we can efficiently work with you throughout a product's development cycle. So when your product is completed, our components are already fully documented for rapid UL listing and/or CE approval.



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A problem-solving resource

As today's medical devices become increasingly sophisticated and complex, often times a more complex and demanding fluid handling regime is required. Here, our OEM peristaltic pump solutions are the answer.

We serve as an important problem-solving resource for our OEM customers – identifying, defining and developing the solutions you need, and providing you with a number of viable, strategic options.

Some custom medical device OEM designs demand very high operating pressure capabilities or no pulsation, others require special types of controls or enclosures. Often times, OEMs prefer to out-source additional assemblies to us in addition to our custom pumping solutions.

World-class innovator

We are known worldwide as a leading manufacturer of peristaltic pump

technology; as the manufacturer of the highly regarded Thermo Scientific Masterflex® peristaltic pump line; and as a world-class innovator in the engineering, design, manufacturing and distribution of an extensive line of fluid handling and flow control products. For our OEM customers, we bring our entire design, engineering and manufacturing expertise to bear to best meet your ever-evolving needs.

Precise, reliable flow control

Every series of peristaltic pumps we offer is available for OEM use, providing flow rates from less than a teardrop to hundreds of gallons per minute, and an accuracy rate better than 1 percent.

But whether it's a production pump you need or a custom-designed pump solution, you can be assured of a precise, highly reliable flow control system for long-term operation, and one that operates seamlessly with your product.

That's why hundreds of OEMs have discovered the advantages of specifying Thermo Scientific pumps for their products.

OEM Team provides customer-specific solutions

Here are some examples of custom medical equipment OEM solutions we've created that provide tangible benefits, optimum efficiencies and performance for our customers:

- When Spectrum Laboratories needed a precision pump system and pressure monitor to market with their filtration and bioprocessing products, our project management and engineering experience ensured the delivery of an in-spec, private label pump system and custom pressure monitor in less than three months.

- Angio Dynamics needed to upgrade the pump system used with its R.F. Ablation device and came to us for answers. We developed a custom medical pump system to fulfill the customer's



Our critical understanding of advanced medical equipment fluid handling and flow control dynamics comes from decades of firsthand experiences.

exacting requirements and met all necessary certifications.

- Medical technology provider Gambro BCT quickly needed a custom pump head and drive to serve its proprietary blood concentrate technology. The head was customized to accept

Gambro's special-sized tubing and the drive was reconfigured to dispense a precise level of fluid through this tubing at the press of a button. We met the challenge, engineering the solution and providing it to Gambro in less than six months.

- For its home dialysis filtration unit, Aksys Ltd changed out its existing pump with our OEM pump using Masterflex® StayPure tubing. Due to the increase in flow stability resulting from this change, the unit's flowmeter was no longer necessary, reducing production costs and allowing the unit to reach higher operating pressures than it had with normal peristaltic tubing.

- Boston Scientific came to us when it needed to find a way to cool the electrotip of its RF catheter in order to prevent blood coagulation on the tip during ablation therapy. Our OEM solutions team quickly developed a medical recirculating cooling pump that fit the need perfectly and met all necessary certifications.

Design applications for meeting the following approvals: UL, cUL, Medical CE, ISO 13485, ISO 9001:2003

In addition to these offices, Thermo Fisher Scientific maintains a network of representative organizations throughout the world.

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