PRESS RELEASE

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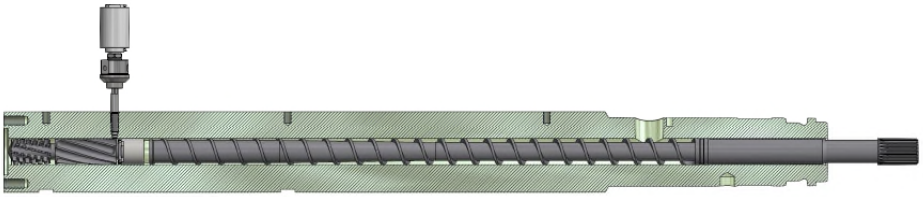
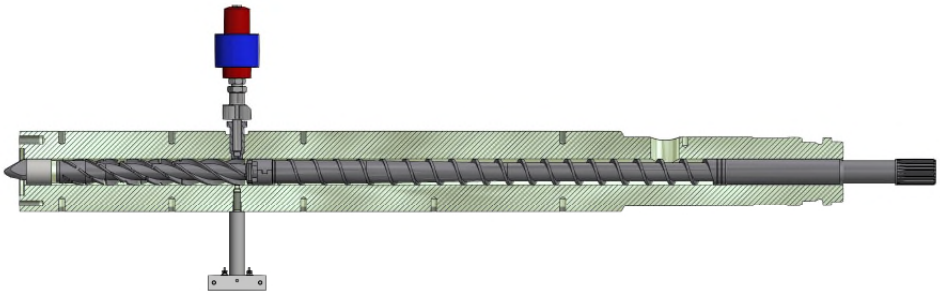
Trexel Introduces New MuCell® Screw Tip Dosing Module for Application-Specific Demands

Wilmington, Mass. (April 9, 2019) . . . Trexel Inc. has introduced a new product that provides an additional option for users to implement application-specific microcellular foam (MuCell) molding technology. The new Screw Tip Dosing Module (TDM) allows for optimized process adaption and increased performance, at a low implementation cost.

MuCell Screw Tip Dosing Module



Screw with New Tip Dosing Module



Traditional MuCell Screw

Trexel's new TDM technology is an important development in physical foaming, which will enable more users to implement MuCell. "This new technology is a real breakthrough for us and our customers," said Brian Bechard, President of Trexel. "It offers a flexible, modular solution and makes it easier and less expensive for customers to implement and realize the benefits of MuCell molding, and will work for both retrofits and new implementation."

The TDM will easily be screwed onto a standard screw to replace the traditional screw tip/ non return valve. In combination with Trexel´s new high pressure MuCell SCF injector it provides significant benefits especially for high performance molding applications, including higher output and less wear. "This is important due to changing market requirements as foam molding becomes a more standard process globally," stated Bechard. "The trend is moving towards more high performance, application specific solutions".

Comprehensive Process Experience and Development Know-How

As the market leader in physical foaming, Trexel provides comprehensive process, application and equipment know-how for foaming processes. With over 20 years of experience in physical foaming, Trexel understands market demands and that is what led to the development of the new TDM.

Significant research and development was conducted to evaluate TDM performance within wide material and application-specific process conditions. The results are now available in the new TDM, which is an optimized wiping/mixing module with reduced space requirements. Besides the proven traditional MuCell plasticizing equipment, the new TDM solution creates higher performance for specific applications like high plasticizing for thin wall packaging, or gentle material treatment for long fiber filled materials. With the option to provide traditional MuCell units or new TDM plasticizing units, Trexel provides best-case MuCell solutions for all customer demands.

Enhanced Product Portfolio from Foaming Specialists

The new TDM is simple to implement as it works with many different screw and barrel solutions already in use by processors (or from OEM resellers). TDM can be used with standard 3-zone screws as well as specific barrier screws and others. The elimination of the former middle non-return valve (NRV) together with a longer plasticizing zone of the screw, allows more gentle plasticizing and less wear. In combination with the high pressure SCF injector, the former rupture disc is no longer needed which reduces service and maintenance.

Overall, TDM provides benefits especially for high performance applications. It is a modular unit and flexible for easy retrofit, but also easily reversible for users who want to do conventional molding. There´s a suitable solution for any specific case depending on what screws and barrels are available or being used. The TDM module can be used with short screws and enlarged barrels or even with a barrel extension.

About Trexel

Trexel is in the business of providing technology which places tiny cells of gas in plastic parts, and our passion is manifested in the broader benefits that these micro bubbles can deliver. Our microcellular foaming technology reduces production cost while increasing environmental sustainability. We make it possible for designers to break some of the rules of thermoplastic part design, resulting in design for function instead of design for manufacturability.

Our technology enables lighter, more dimensionally stable products which can be produced faster on smaller, more energy efficient equipment.

Since 1995 we have been applying our technology to thousands of applications in dozens of industries. We have developed unsurpassed know-how, continuously improved our technology and enhanced our services, growing into the global leader in microcellular foaming technology we are today.

We deliver systems for physical foaming injection molding, chemical foaming agents and provide extensive technical advice up to complete handling of engineering projects. Mold trials, services and education or training activities complete our activities.

MuCell® is a registered trademark of Trexel, Inc.