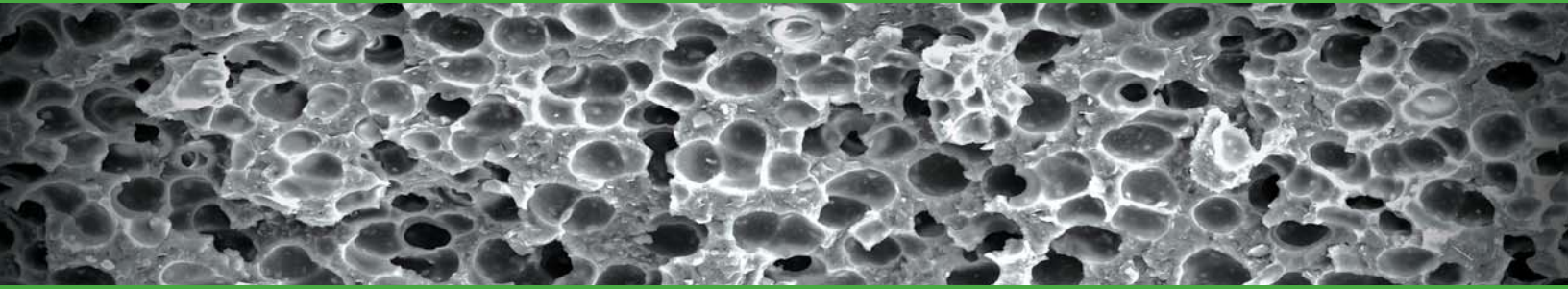


# MuCell® T-100 Series SCF Delivery System

## Equipment Data Sheet



The Trexel MuCell T-100 Series SCF (Super Critical Fluid) delivery system is a state of the art Nitrogen delivery and dosing specifically designed for small shot size molding applications. (< 140g / 5 oz.) The system is built to the stringent industrial standards and is designed to convert industrial grade Nitrogen into a super critical fluid. (CO<sub>2</sub> available as an option) The system precisely doses and injects small amounts of SCF into the plasticizing unit of the injection molding machine creating a lower density, stress free microcellular material structure in the molded plastic part. It features a technology leading control system with a 8" graphical touch screen user interface. Set up parameters require only the shot size and percentage of SCF content. The system calculates everything else and optimizes SCF delivery during screw recovery.

### Technical Data

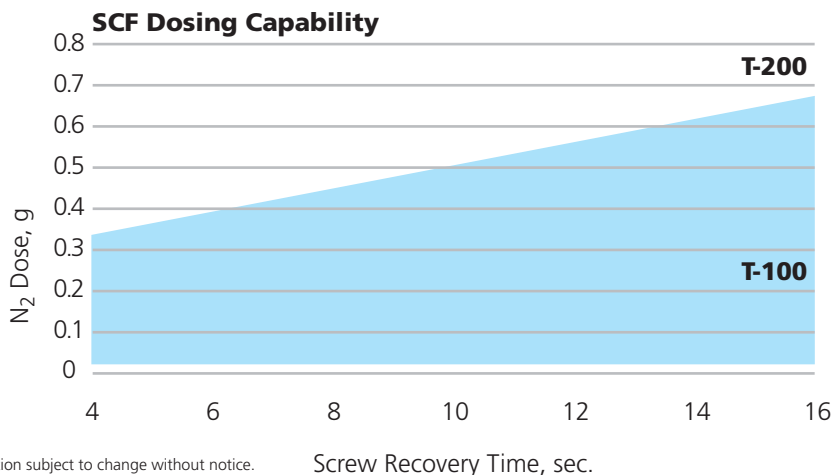
| Model                           | T-100                  |
|---------------------------------|------------------------|
| Plasticizing Screw <sup>1</sup> | 18-60mm                |
| Shot Size <sup>1</sup>          | 10-140g                |
| Minimum Supply Pressure         | 13.8 bar               |
| Maximum Supply Pressure         | 200 bar                |
| Electrical Connection           | 230/110 VAC 1ø 50/60Hz |
| Air Consumption                 | 875 NLM @ 6.5-10 bar   |

<sup>1</sup> Guidelines only. Please refer to the chart below considering N<sub>2</sub> dose and screw recovery time for appropriate Model selection.

### Options

CO<sub>2</sub> Option: Configures gas components with the capability to process CO<sub>2</sub> and N<sub>2</sub>

Nitrogen Purity Control: Monitors purity of the nitrogen supply

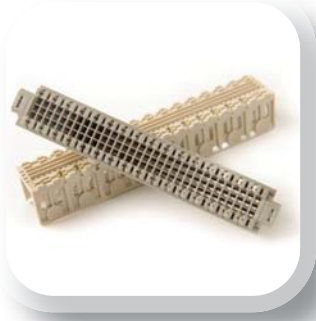




## MuCell® Injection Molding for Small Plastic Parts

Small injection molded parts are typically used in complex mechanisms, electrical connectors or other applications requiring a high level of precision. MuCell injection molding provides for stress free plastic parts with very high dimensional stability with the following benefits:

- Repeatability tight tolerance final part dimensions
- Improved centricity in round parts
- Uniform shrinkage across the entire part
- Reduced warpage
- Repeatability pin hole location and shape in connectors



The T-100 has been designed specifically for small injection molding applications. The SCF system doses and injects small amounts of Nitrogen accurately and reliably shot to shot. The system is an economical equipment solution for small, high tolerance foamed molding applications.

## About Trexel



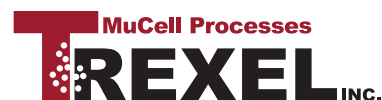
*The T-100 has been designed specifically for small injection molding applications.*

Trexel, Inc., headquartered in Wilmington, MA, has led the development of the MuCell® microcellular foaming injection molding technology and has pioneered many plastic processing solutions. The MuCell® technology provides unique design flexibility and cost savings opportunities by allowing plastic part design with material wall thickness optimized for functionality and not for the injection molding process. The combination of density reduction and design for functionality often results in material and weight savings of more than 20%. The numerous cost and processing advantages have led to rapid global deployment of the MuCell® process in automotive, consumer electronics, medical, packaging and consumer goods applications. Process deployment as well as equipment is supported by teams of highly qualified engineers through Trexel subsidiaries in North America, Europe, and Asia.

Trexel recently extended its product offering with the TecoCell® system. TecoCell is a unique chemical foaming technology that provides uniform microcellular structure to injection-molded parts.

For more information, please visit [www.trexel.com](http://www.trexel.com).

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**Trexel, Inc.**  
100 Research Drive Wilmington, MA 01887 USA  
Tel: 781 932-0202 | Fax: 781 932-3324  
[www.trexel.com](http://www.trexel.com)