T-Series SCF Delivery System

MuCell

The MuCell T-Series SCF (Super Critical Fluid) delivery system offers reliable and consistent microcellular foaming of injection molded plastic parts.

The system is designed to convert industrial grade Nitrogen into a super critical fluid (CO_2 available as an option). The system precisely doses and injects SCF into the plasticizing unit of the injection molding machine creating a lower density, stress free microcellular material structure in the molded plastic part. The T-Series feature technology leading control systems. 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	T-200	T-300	T-400
Plasticizing Screw[1]	18-60mm	>40-90mm	>70-120mm	>100mm
Shot Size[1]	10-140gr	>120-600gr	600-3000gr	>2,50 -12,500 g
Minimum Supply Pressure	13.8 bar	13.8 bar	13.8 bar	13.8 bar
Maximum Supply Pressure	200 bar	200 bar	200 bar	200 bar
Overall Dimensions (WxDxH)	56x61x130cm	56x79x156cm	56x79x156cm	120x100x157cm
Weight	126kg	195kg	216kg	818kg
Electrical Connection	230/110 VAC 1ø 50/60Hz			380/460 VAC 3ø 50/60Hz, 16A

[1] Guidelines only. Please refer to the chart below considering N_2 dose and screw recovery time for appropriate Model selection.

CO_2 Option: Configures gas components with the capability to process CO_2 and N_2 (not available with T-400)
Nitrogen Purity Control Option: Monitors purity of the nitrogen supply
Dual Bottle Option: Automatic nitrogen bottle switching station from 2 gas sources (not available with T-100)

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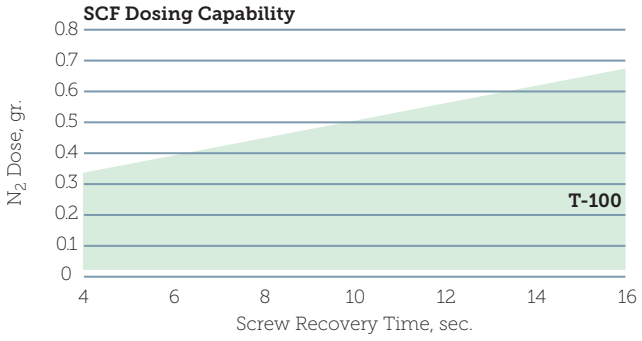
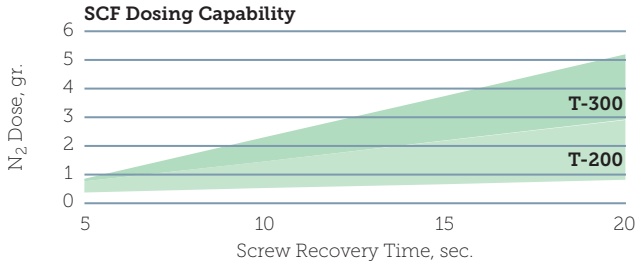
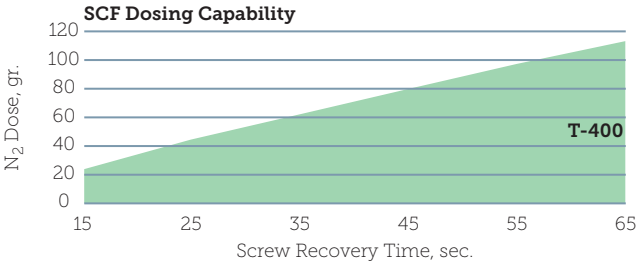






MuCell® Injection Molding for Small and Large Parts

MuCell provides for stress free SMALL plastic parts with very high dimensional stability and offers these benefits:

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

Effective foaming of LARGE injection molded parts allows for significant advantages:

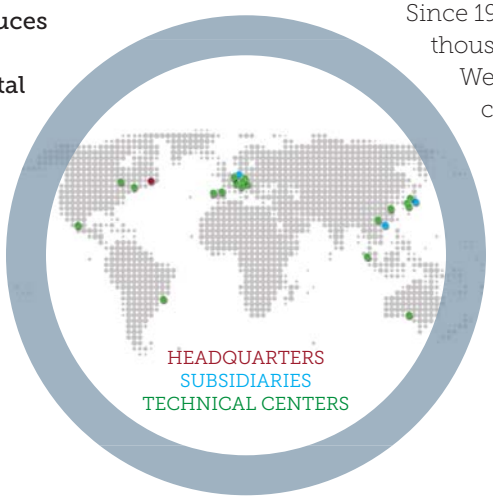
- Primary material savings due to a density reduction in the material
- Increased opportunity to optimize mold design for significant secondary material saving
- Reduced clamp tonnage requirement enables the purchase of smaller machines which directly reduces initial investment
- Improved dimensions (particularly with Polyolefins) for better tolerances
- Up to 15% reduction in cycle time

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.**

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.



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