

LFT-D - High Performance Production of an Underbody Cover Utilizing Dieffenbacher Direct Compression Molding Technology

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Abstract

Long Fiber reinforced materials in automotive applications are growing rapidly. Direct technologies such as the Dieffenbacher LFT-D process with in-line compounding show the most significant growth rate. Major advantage for this type of application is a high output rate.

The new manufacturing line enables a cycle time of 20 s and an output of six parts per minute employing two molds at the same time. Because of this large scale production the line is fully automated, including post processing and mounting of nuts and clips.

The presentation will show the production of the parts including process innovations. Future outlook will be given for "Tailored LFT" as well. Therefore the potential of local continuous fiber reinforced LFT will be shown.