

UFD "Elite Series" Nozzles





■ innovation ■ service ■ reliability

What is the Technology?



Simplified UFD applicator nozzles with larger orifices and fewer, thicker plates



■ innovation ■ service ■ reliability

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CONCEPTION AND A

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Previous Design:

- 11 plates
- 11.1 mm total thickness

New Design:

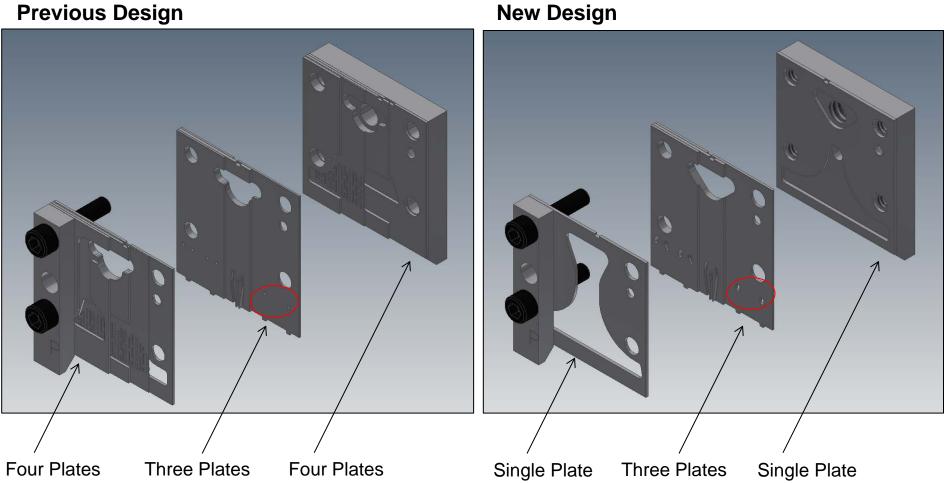
- 5 plates
- 9.5 mm total thickness



Concept

Visual Explanation





New Design

Differentiation



Next generation of patented UFD nozzle applicator technology that provides improved performance, robustness, and simplified maintenance





Features & Benefits



Adhesive Flow Optimized with Computational Fluid Dynamics (CFD) Modeling

Higher velocity in critical flow paths, less area for glue to collect. Flow distribution is more even across the nozzle.

Customer Benefit

Reduced nozzle plugging, less downtime

More uniform pattern, consistency of end product

Features & Benefits



Robust Plate Design

Improved flow path results in higher fluid velocity through the nozzle, especially in the fluid plenum plate. Orifice entry passages increased in size up to 50%

Customer Benefit

Significantly reduced nozzle plugging, less down-time

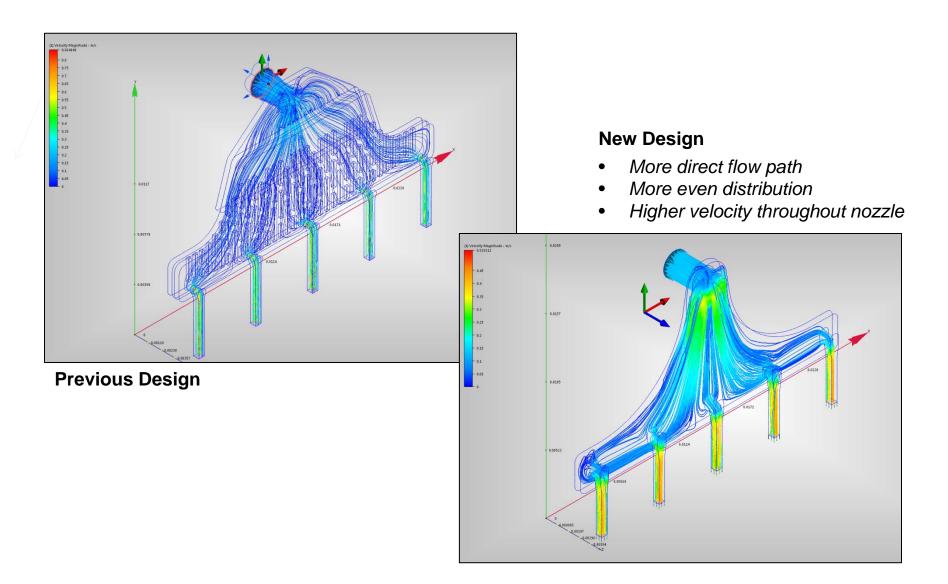
Easier to clean and maintain, reduced labor requirements

Increased nozzle lifetime

Potential to improve processing of Polyolefin adhesive chemistries

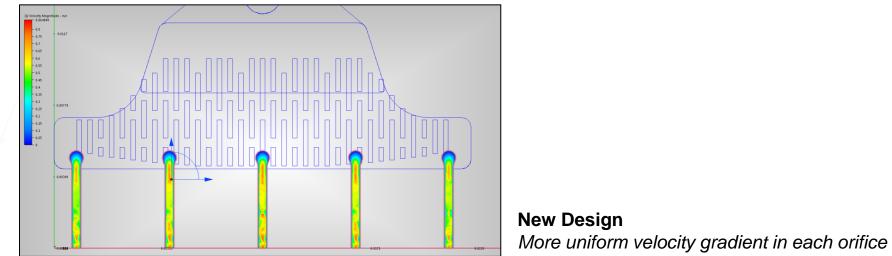
CFD Simulation



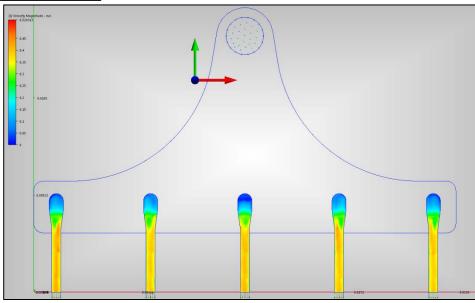


CFD Simulation



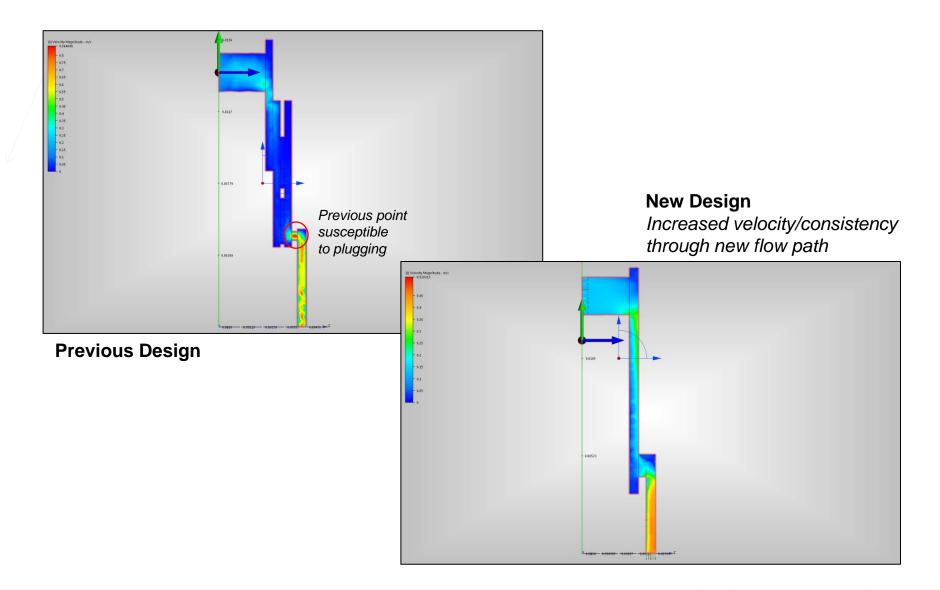


Previous Design



CFD Simulation





Technical Data/Specs



Adhesive Viscosity	up to 30,000 mPas.
Temperature Range	up to 218°C
Air Pressure	0.3 – 2.1 bar typical



Thank You!

