



SMARTFOAM STATION

Valco Melton's SmartFoam Station creates adhesive foam by using a dynamic mixer to combine different types of adhesives with dry air. This process may reduce adhesive density by up to 50% while maintaining its bonding capabilities. Immediate benefits include important adhesive savings and more eco-conscious operations.

Adhesive Foaming Benefits:

- Adhesive density, and therefore adhesive usage, may be reduced by up to 50%, bringing important production savings.
- Foaming improves certain adhesive properties such as open time, wetting, and compression, and increases the contact surface. This results in a stronger bond between substrates, even when they are not compressed immediately after adhesive application.
- As adhesive foam expands with its application, it is an optimal solution for filling gaps with less adhesive usage. Additionally, this results in lighter final products compared to traditional adhesive application for gap or joint filling.

Easily adjust adhesive density to the specific value required by each application, in a range of 0-50%. An intuitive PLC simplifies programming tasks.

External Recirculation. Ensure an homogeneous and consistent adhesive foam density when working on intermittent applications, or during short production stops.

SmartFoam's integrated air dryer improves adhesive foam stability by completely eliminating air moisture.

An integrated dynamic mixer creates an homogeneous adhesive foam.



All you need to start foaming - No additional investment required.

SmartFoam is an independent station that can be connected to any industry standard melting system, whether it's new or previously existing. SmartFoam is not tied to a specific brand or model, and once connected it will start controlling the hot melt unit pumping rate.

Multiple foam applications from one single SmartFoam

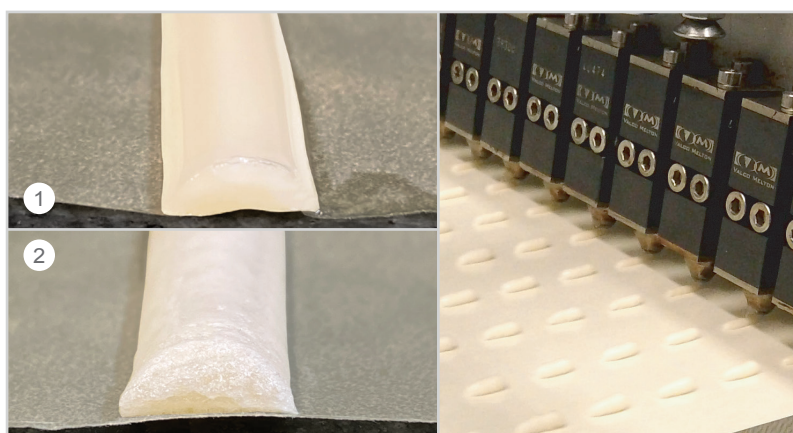
Ideally suited for production processes that require different or independent adhesive foam applications, each SmartFoam station can work with up to 4 of our Smart Pumping Stations. This allows the user to configure up to 4 different applications.

Is adhesive foaming an alternative for my production process?

Some of the more relevant adhesive foam properties include its *reduced density* and *lighter weight*, its *stronger bond* on uneven surfaces and its *bleed-through reduction* on thin, porous substrates.

These properties make adhesive foaming an excellent alternative for a variety of industries ranging from sealing and gasketing in household appliances, automotive or filters, to sealing and protection of electronic components.

SmartFoam brings in proven performance with a variety of hot melts, including EVA's, PSA's, Polyester or Polyolefins.



Adhesive expands with the foaming process. Its contact surface is increased (Fig. 1 & 2), while its density is reduced.

SmartFoam Characteristics	
Working Temperature	Up to 230°C
Adhesive Mixing Capacity	5 to 100 L/h (2,50 to 50 Kg/h)
Density Reduction	Up to 50%
Working Air Pressure Range	6 bar
Dimensions	1545 mm H x 866 mm W x 827 mm D



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