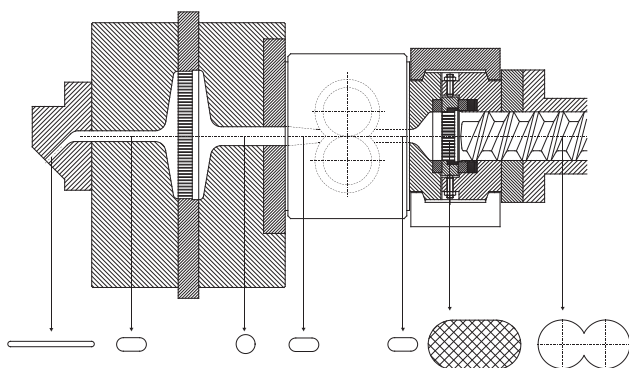


Gneuss System Solutions

Complete solutions for complex tasks

Gneuss offers not only Filtration Systems, but also complete solutions, e.g. rheologically optimized melt filter-pump combinations. One focus of our work is the processing-technical optimization of the integration of the individual components as well as of the line concept.

• Example: Pump-filter combination



Gneuss melt filter-pump combinations are characterized by extremely short melt channels and thus by a minimized melt dwell time. The individual components are harmonized, so that integration is possible without complex adapter flanges. The transitions in the melt channel are rheologically adapted to the neighboring unit, so that the channels are free from dead spots and the melt flow is homogeneous at every point. Simple handling and operation are always guaranteed.



2-stage-filtration solution RSFgenius-pump-RSFgenius for extremely fine filtration even with high contamination loads



System RSFgenius-pump. The pump is installed upstream of the filter in order to guarantee the required melt pressure.

• Example: Filtration with integrated strand die

Especially in the manufacture of masterbatch and pellets, where color and material grades are changed frequently, a rheologically optimized melt channel is necessary for reasons of self-cleaning, in order to prevent time consuming cleaning of the melt channels. Additionally, quick and easy access to all the parts in contact with the melt must be possible. You can benefit from Gneuss' decades of experience in this area.



RSFgenius with integrated strand die

• Example: Utilization of the measurement data from the filtration system for process optimization and automation

The pressure-controlled rotational speed of the filter disk provides exact data with regard to changes in melt viscosity and the level of contamination in the product. In this way, an excellent and practical process control is made possible. For example the blending ratio between inhomogeneously contaminated recycled material and virgin material can be controlled online so that the quality of the final product remains constant. This leads to a major reduction in material costs while simultaneously assuring permanent product quality.

A similar advantage is achieved for example with the dosing of additives, which are often subject to significant quality variations.



Filtration system for automated production line