

Special design pump unit for double throughput

Case

A customer encountered quality problems with the production of glue sticks. The system our customer was using gave instability in the output of the hotmelt, a relatively low viscous product. Additionally they wanted to increase output. Our customer tried to solve their problems by splitting the hotmelt flow in two. Unfortunately, this did not result in the required quality.

Our solution

Suurmond developed a pump system with a double pump. The synchronisation with the driver was controlled by means of frequency inverter. A cost-effective solution that was developed in consultation with the supplier of the drive.

The gear pump that was used for this purpose is a double pump by MAAG, type EX GPD. This compact pump is capable to run two completely different flows simultaneously with distinct throughput and pressure ratings. This type of gear pump is heatable with heating cartridges.

The pump and driver are mounted on a skid with small footprint and safety guard. Suurmond not only supplied the pump system but also a complete control system.

Technical data:

Pump type	Extrex 28-5 GPD by MAAG
Viscosity	Maximum 30,000 Pas
Temperature	Maximum 350°C
Inlet pressure	Maximum 120 bar
Drive	Lenze, including control system and adapters
Assembly	Special design skid with adjustable base for optimal alignment

