



Client: Hyperlast

Project: Groundbreaking transportation method for powder polymer

Background

Hyperlast is a leading international polyurethane systems house creating innovative polyurethane elastomers for practical industrial applications.

Requirement

Hyperlast wanted a more efficient transportation method for Expancel, an unexpanded powder polymer containing a highly flammable substance. Hyperlast required increased and continuous production while improving safety.

Our response

Transportation of the material requires extreme care due to its flammable nature and small concentrations of toxic chemicals. Prior to the project, Hyperlast had been restricted to small batch production. HFL developed a quicker and safer way of transporting the material, using a system that would minimise the risk of an explosive atmosphere forming in the system. Personnel safety at the plant was improved with a special discharge system, allowing Expancel to be discharged at a constant feed in to the expander, therefore removing the need for a manned operation. In addition, an extraction system was developed to reduce dust and vapour levels in the working environment.

Result

“Hyperlast has greatly increased the speed at which the powder polymer can be produced while improving plant safety, providing it with significant competitive advantage in the market place.

We have enjoyed an excellent working relationship with Haden Freeman. The solution is extremely innovative and has never been done before.”

Operation and Technical Manager
Hyperlast Ltd

“ We have a consistent and successful track record of carrying out this kind of work and this is a great example of how we can develop an innovative solution that can dramatically improve the way a company operates.”

Ian Dunkley
Engineering Director
Haden Freeman Limited

