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*Case Study*

# Explosives Plant Improves Productivity With Custom Large Format Centrifuge Liner

## Customer Issue

A global leader in explosives manufacturing for industrial, mining, and seismic earth moving applications approached Filter Products Company for help with designing a large format centrifuge liner.

At one of their US facilities, they required a highly customized industrial strainer solution for their family of large format centrifuges. In addition to precise mechanical separation of solids from liquids, the centrifuge liner needed to be capable of repeatedly holding and extracting many hundreds of pounds of retained solids from the centrifuge at the end of a cycle.

This challenge was complicated by the unique chemical compatibility requirements between the filtration fabrics, the industrial webbing (or “strap”), and the thread used to sew everything together.

## Filter Products Company Solution

The engineers at Filter Products Company worked with the Process Engineer at the production facility to design and manufacture a liner that met and exceeded requirements.

The customer provided a liner bag from the incumbent supplier, and what little dimensional information had been documented. To complicate matters, the dimensional information provided was low resolution and had several inaccuracies, both for dimensions and material.

The customer also requested several changes to the existing design. This led to several rounds of prototyping in order to arrive at a product that worked as desired.

Filter Products Company successfully sourced the right filtration fabric, strap material and thread and manufactured the large centrifuge liner using its domestic custom cut and sew operation.

## Customer Result

The explosives manufacturer was pleased with the functioning of the prototype and placed a production order. They shared that the FPC bag lasts longer compared to the previous supplier's bag. They are now regular customers for this product.

## Services Used

Product Development and Manufacturing – Custom Centrifuge Liners.