

ZGF Phoenix Filtration System Replaces Bag Filters – Improves Quality & Process Reliability and Reduces Total Operating Costs

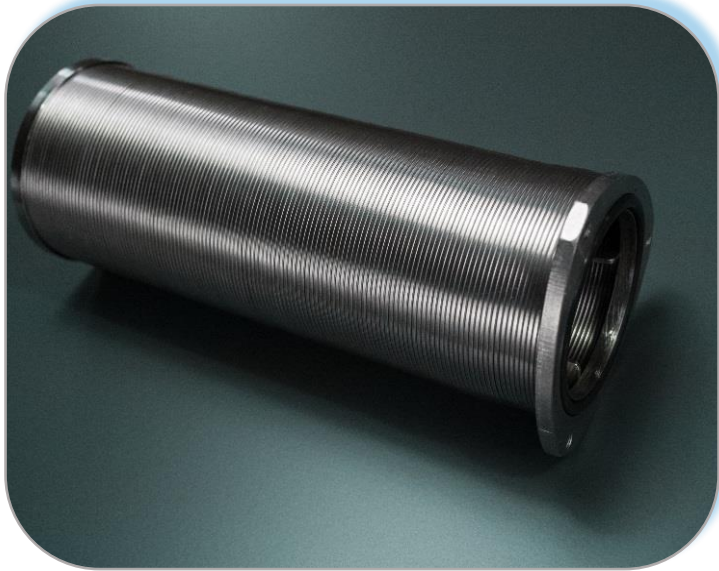
The Most Advanced, Automatic,
Non-Disposable Liquid Filtration System



Paint Pretreatment



The ZGF Phoenix filtration system is the most advanced, automatic, non-disposable, liquid filtration system



Each ZGF Phoenix filter has (6) proprietary, non-disposable ZGF Spring Filter elements with a 50 micron Absolute Gap & a 5-year warranty

Customer Challenge:

Automotive component suppliers operate in an extremely competitive environment. They must rigorously manage all aspects of the manufacturing process to satisfy their customer's cost, quality, and delivery requirements. They must all consider worker safety and environmental aspects as these variables impact total operating costs and supplier grades / ratings.

The supplier produces automotive parts that must be chemically washed and rinsed prior to coating. Bag filters are used to remove the contaminants from the wash and rinse solutions.

The bag filters have a nominal rating and do not provide consistent and reliable filtration. They also require frequent changeouts (i.e. replacement and disposal costs) which requires maintenance personnel, production interruption, and worker exposure to aggressive chemicals.

Our Solution:

Install a ZGF Phoenix filtration system. The Phoenix filter is fully automatic and fitted with (6) 50µ Absolute Gap, ZGF Spring Filters. The Phoenix provides uninterrupted flow of wash solution to the process. To recover the wash solution, the backwash from the Phoenix filter is directed to a 10-micron filter bag which collects the solids and allows the wash solution to flow back into the tank.

Results:

The ZGF Phoenix filtration system addressed all the challenges associated with the cleaning operation prior to coating.

- Eliminated the primary bag filters
- Improved overall quality, and reduced defects & part reject rate
- Improved process consistency and reliability by minimizing operator interface (i.e. bag changeouts) and variability associated with nominal bag filters
- Increased productivity and reduced total operating costs.
- Created a safer work environment by reducing worker exposure to the aggressive cleaning chemical
- Minimized the environmental impact of the process by eliminating the primary bag filters.