Automotive Component Manufacturer
Implements ZGF Spring Filter
Technology and Improves Process
Reliability and Reduces Total Operating Costs

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



Metalworking / Machining



Each pod contains (7) proprietary ZGF Spring Filter elements with a 50µ absolute gap



ZGF EC700S Pod cutaway view to show how elements are configured in pod



ZGF EZ CLean EC700S, 13-Pod, permanent media, fully automatic filtration system rated at 1,500 gpm

Customer Challenge:

A manufacturer of automotive components was having challenges in their Aluminum machining operations. The central coolant filtration system did not have the capability to meet the coolant cleanliness requirements. So, 40µ bag filters were added at each machine. The bag filters created a burden on the maintenance staff and an unplanned recurring cost.

ZGF Solution:

ZGF installed an EZ Clean EC700S, 13-Pod automatic filtration system. The filtration system is fitted ZGF's patented, 50µ absolute gap, Spring Filter elements. The fully automatic, permanent media filtration system addressed both issues.

Results:

- The ZGF Spring Filter elements with a 50µ absolute gap provided significantly finer and more consistent filtration than the 40µ bag filters
- Implemented finer filtration at the machines
 - ✓ 40µ bag filters were reduced to 25µ
- Reduced Bag Filter Change Frequency:
 - ✓ Before ZGF: 40µ bags were changed 1 time per shift
 - ✓ After ZGF: 25µ bags were changed every 30 to 45 days
- Increased Productivity:
 - ✓ Before ZGF: Production was ceased for all bag filter changes.
 - ✓ After ZGF: Bag changes can now be scheduled when production is down.
- Improved Tool Life The consistent, reliable, and finer filtration provided by the Spring Filter has increased tool life
- Total Operational Improvement and Cost Reduction Achieved
 - Reduced Labor and Maintenance. The filtration burden is gone.
 - Reduced Total Operating Costs
 - Improved Process Reliability & Quality