

Automotive Component Manufacturer Implements ZGF Maggie and Extends Tool Life, Improves Quality and Reduces Scrap & Maintenance

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



Metalworking / Machining

Customer Challenge

The operating costs and quality associated with the stand-alone machining operations were not meeting corporate objectives or expectations. They determined that machining coolant cleanliness was the root cause.

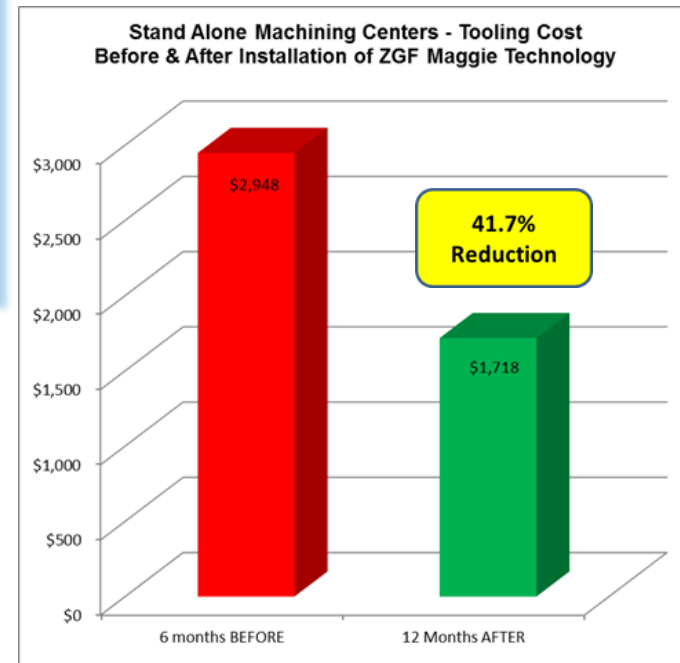
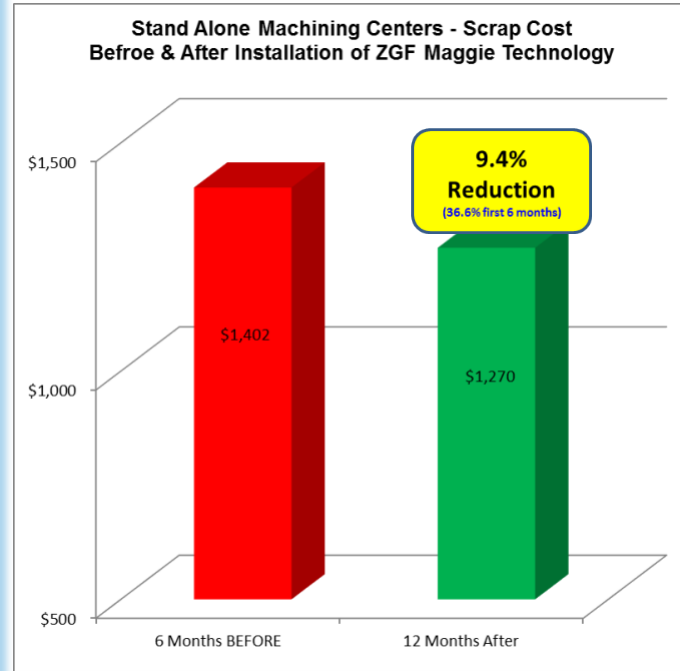
ZGF Solution

ZGF worked with engineering and maintenance personnel to develop a solution. A Maggie system was installed in-line to each machine. The system included a Maggie MG300 automatic magnetic separator and Smart Drum fluid recovery device. The Maggie systems were controlled by the machining centers to ensure there was always to flow of coolant to the machine tool during the cutting process. The ZGF Maggie systems have a design flow capacity of up to 35 gpm. Typical machining center coolant requirements are 20 to 30 gpm.

Results

- **9.4% reduction in Scrap Cost (36.6% first six months)**
- **41.7% reduction in Tooling Cost**
- Increased Productivity & Eliminated Unplanned Downtime
- Each Maggie removes OVER 1 lbs. of solids per day
- Longer Coolant Life
- Reduced Labor and Maintenance
- More Environmentally Responsible Solution

Significantly Lower Total Operating Costs AND Improved Process Reliability & Quality



Average discharge so far is .5kg (1.1lbs) every day!