

CASE STUDIES IN MAGNETIC FILTRATION





CASE STUDIES - MAGNETIC FILTRATION AT ITS BEST!

REDUCING ENVIRONMENTAL IMPACT - ELITE TOOLS

Elite Tooling installed a Filtramag Magnetic Filter on a Walter Helitronic Power Grinder, used for manufacturing carbide cutting tools, and were able to cut consumable costs and sell removed contamination for recycling.

INCREASED PRODUCTION EFFICIENCY - HONDA

Honda installed a Micromag on a bespoke machine used for manufacturing engine valve seats where accuracy and finish quality is critical. Not only was part quality improved but the filter's minimal maintenance requirements meant that machine downtime was significantly less.

SIGNIFICANT SAVINGS MADE - THYSSENKRUP

Auto parts manufacturer ThyssenKrup was having to replace one pump per week in its de-greasing plant due to inefficient filtration. After installing a Magnetic Filter before the pumps this figure was reduced dramatically. The cost of the filter was paid back within weeks.

PAYBACK IN WEEKS - BORG WARNER

PROBLEM 1. The turbocharger balancing machines test turbochargers, using engine oil, then machine material from a steel locknut to make corrections. The removed steel contaminates the oil and was quickly fouling up standard cartridge filters used to filter it, thereby becoming cost prohibitive to replace them so frequently. The Micromag was installed on each of their 4 machines and the results were a complete payback in less than 3 months. Borg Warner saved over \$10,000 US in consumable and production downtime costs in that period.

PROBLEM 2. The other problem was removing ferrous particulate from waste coolant water so that it could be disposed of more cheaply and easily. The coolant consists of soluble oil mixed with water. After use the oil and water are separated for recycling and disposal was expensive. A Micromag provided the answer. The contaminated water is pumped through the Micromag, before reaching the expensive membrane filter tubes, where particulates are easily removed with no consumables used and no running costs. Magnetic filters provided Borg Warner solutions in 2 areas; 1. cost requirement savings, and 2. being environmentally responsible.

