

Filtration Group Application Example – Tooling Machines

FG Backflushing Filter in Camshaft Production



Factory Equipment

Initial situation

High-quality Filtration Group automatic backflushing filters are used in the production of high-performance components for motor sports, tuning and vehicle refinement. Our customer AVL SCHRICK GmbH in Remscheid, manufactures a large selection of high-performance camshafts and drive components for Formula 1, WEC and the American NASCAR series, among others, on ultra-modern combination systems. Different processing steps and technologies are carried out on one machine. AVL SCHRICK uses a **FG automatic backflushing filter type R8-40 DN 250** to optimize the production process and increase efficiency.



Solution statement

- Filtration Group uses a FG automatic backflushing filter type R8-40 DN 250 for this application
- Avoidance of clogged nozzles on grinding machines and associated damage to grinding wheels up to machine fire
- The filter supplied is used behind an existing filter system consisting of five endless belt filters and complements the decentralized filter concept
- The duplex filters on the processing machines are relieved and thus function as police filters and no longer as working filters



Customer value

- Process reliability of the processing machines, especially in night shift operation, thanks to efficient self-cleaning function through automatic backflushing
- Protection of grinding processes and machine cleaning without filtration interruption
- Reliable operation without downtime
- Low space requirement due to compact design

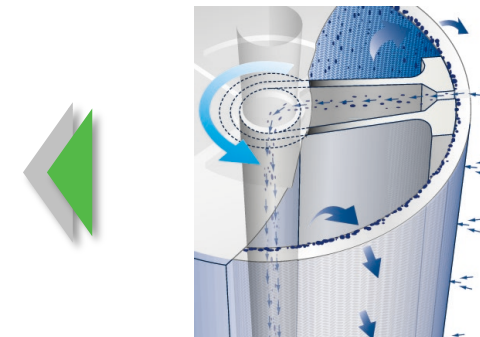


Challenge

During the grinding process of camshafts and crankshafts, cooling lubricant is injected into the grinding gap at high pressure. Cooling during grinding prevents thermal damage to the components and grinding tools. The process heat is dissipated via a targeted supply of coolant to the machining zone. This high-pressure equipment must be protected by a safe and efficient fine filter stage.

Technical Data

- Medium: KSS emulsion
- Flow rate: 2,160 l/min
- Operating pressure: 3 bar
- Filter fineness: 60 µm
- Pre-separation: central system



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