

Filtration Group application example – Factory Equipment

Oil mist separation – KE 3075



Factory Equipment

Initial situation

When the castings for the production of chamshafts come from the foundry, a complex cleaning, polishing and grinding process begins. When grinding cast steel, very high peripheral speeds of the grinding wheel come into contact with a hardened casting material. Chip removal under enormous heat development and the transport of large quantities of fine cast particles away from the workpiece and grinding wheel is an important aspect for high quality requirements due to precisely arranged coolant nozzles and the processing oil used.



Solution statement

The **Filtration Group KE 3075 oil mist separator** is a customer-specific solution that is now generally available and is used as a price-sensitive solution for a volume flow of 2,000 m³/h. This variant complements the existing LGA series 601 and LGA 1200/1201.

Results

- Reliable separation and **recovery** of fine oil droplets using the virtually **maintenance-free coalescer principle**
- **Protection for man and machine** by adherence to all limit values of TA-Luft
- **Significant improvement of the degree of separation** has been achieved



Customer value

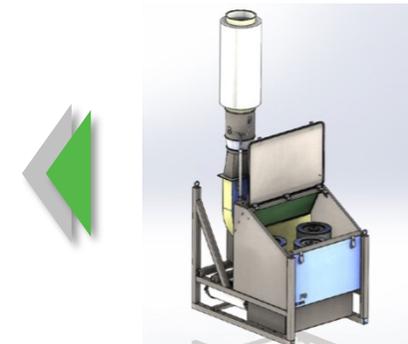
- **Extension of the maintenance interval**
- Reduction of **machine downtime** to a **minimum**
- **Recovery** of the separated oil
- Virtually **no consumables** on the device
- Reliable protection of the **health of all employees ensured**
- **No cleaning** required to remove oil residues

Challenge

The processing oil is atomized and evaporated. The smallest aerosol particles are distributed in the machining area of the machine, pushing their way through a small opening in the door to the employee's workplace and into the room air. Due to its composition, oil aerosol contains substances that can be harmful to human health and the environment. The aerosol mist, which reaches the KE 3075, consists mainly of particle sizes in the range < 10 µm.

Features

- Price-sensitive variant for an extraction volume of 2,000 m³/h without control
- Coalescer filter elements for the separation of raw gas concentrations up to 3,000 mg/m³
- Optional silencer to reduce the noise level



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