FILCOM Application example

WIAG Antriebstechnik – Oil mist separation

Initial situation

The impressive production facility of WIAG Antriebstechnik, one of the leading manufacturers of gear technology and gear assemblies, houses three state-of-the-art halls equipped with the latest CNC machining equipment. These halls in Lippstadt are crucial for the production of large parts that are later incorporated into the products of well-known and extremely demanding customers.

Managing Director Udo Hüsten emphasizes the central role of modern machines from the upscale segment in their working environment. The systems must be operated continuously in two to three shifts in order to amortize the investment costs. WIAG Antriebstechnik therefore relies on first-class technology and efficient production to meet the high demands of its customers.

Challenge

The intensive temporal and spatial concentration of modern machines with extremely fast feed rates inevitably leads to increased exposure to cooling lubricant vapors. Although previous measurements by the employers' liability insurance association have never exceeded a limit value, a common interest of employees and management is to ensure noticeably healthy air quality in the work areas, Hüsten emphasizes. The intention is not to rely solely on compliance with legal limits, but to strive to meet the latest technical standards.

As part of these technical advances, robots are now also used to load the machines, especially for larger batch sizes. This automation allows skilled workers to focus on more complex tasks instead of performing simple ones that were previously done manually.

Solution statement

- Machines designed for optimized cycle times and long running times contribute disproportionately to emission pollution in the hall. To counteract this problem, the oil mist extraction system in the production environment was upgraded. This modernization involved the use of MultiCNC oil mist extraction units from Hengst Filtration, which help to raise air quality at WIAG Antriebstechnik to a new level.
- Initially, several of these units were installed in a test phase. In the meantime, the units have proven their worth over several thousand hours of operation, which has led to the purchase of additional units.
- The employees are also extremely satisfied with the noticeable improvements that the modernization has brought. Managing Director Udo Hüsten is convinced that the investment is paying off: "The additional costs in relation to the total investment in the production machine are easily justified when you consider the added value for the health and satisfaction of the employees."

Customer value

- The optional installation by the manufacturer's service was not used. Instead, all the necessary planning documents for the equipment are provided to ensure smooth installation by the company's own engineering department. If necessary, Hengst's local customer consultant was available at all times.
- The cooperation between WIAG Antriebstechnik and Hengst Filtration illustrates that measures to improve air quality can be implemented cost-effectively and with a manageable outlay.
- Thanks to the immediate availability of the MultiCNC from stock, the measure could be implemented without delay.

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