

CASE STUDY

Cutting, Sanding, Welding



POWERFUL FILTRATION SYSTEM IMPLEMENTED SUCCESSFULLY

COMPANY PROFILE

When it comes to innovations for the future of the automotive industry, automotive suppliers need to keep up to speed too. A German company specialising in exclusive automotive electronic systems and interiors is primarily concerned with sustainable solutions, environmental credentials and profitability – this applies not only in its manufacturing, but also in its use of dust filtration systems.

CHALLENGE

The manufacturing process, which involves cutting, sanding and welding with a range of materials from leather and plastic to wood - creates large build-ups of dust and contaminants. In such instances, basic air filtration systems are overstrained. The automotive supplier uses industrial dust removal systems to meet its requirements during manufacturing. The built-in filter cartridges are regularly cleaned by means of a compressed air jet. After a number of cleanings, filters became torn and the manufacturing process ground to a halt. This called for a quick and optimum solution to keep the period of standstill as short as possible, thereby minimising production downtime.



SOLUTION

For the past year, Camfil Farr has been providing the automotive supplier with bag filters for use in building services and in production engineering. Camfil Farr's responsible area manager was informed of the emergency by the technical director of the automotive supplier company. The Camfil Farr employee immediately stepped into action, examining the on-site situation and identifying the cartridges. Following consultation with engineers in Reinfeld, an appropriate Camfil Farr filter solution was suggested:

DuraPleat filter cartridges for dust extraction technology.



DuraPleat filter cartridges – Filter elements for the reduction of emissions, dust extraction and environmental contamination control in workplaces and process applications.

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RESULT

The automotive supplier now also successfully uses Camfil Farr filter cartridges for dust extraction. The conversion resulted in no major alteration work, and previously used cartridges were easily replaced with Camfil Farr filter cartridges from the DuraPleat series.

EVIDENCE

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According to the technical director: „Thanks to the quick and easy conversion carried out by the Camfil Farr team, we were able to prevent a greater loss in production. Within a day, the Camfil Farr experts from Reinfeld had supplied the appropriate filter cartridges at our plant in Achim, saving us both time and money. Alongside the excellent service and comprehensive advice received, the new filter cartridges also represent

an economic improvement in our manufacturing. Lower energy costs prove this.“

Thanks to Camfil Farr's unrivalled pleating technology in the field of dust extraction, an open pleat geometry has been achieved. This leads to a clear reduction in drop pressure as well as improved cleaning properties. Further advantages are the lower energy costs resulting from the reduced air consumption of DuraPleat filter cartridges; reduced contaminant emissions and increased durability of the cartridges.



Camfil Farr pleating technology: open pleat geometry and pleat separation with hot-melt bonding.

Facts on DuraPleat filter cartridges:

- Camfil Farr pleating technology
- Lower differential pressure
- Enhanced operating process
- 100% spunbond polyester
- Improved filtration efficiency
- Pour-in-place, one-piece gasket