

Filtration Group Application example – Surface Technology

Dedusting systems – Made in Romania



Factory Equipment

Initial situation

Honeywell Friction Materials is a world-wide supplier for brake pads and spare parts for brake components. The most important products of this customer are disc brake pads, drum brake pads and various spare parts for brakes. These are used in passenger cars, small trucks, haul trucks, planes and rail vehicles as well as for other industrial applications. For production, the support part is placed into a molding and a press component is filled into the form. Under high pressure and high temperatures, the friction lining is connected with the support part. The brake pads pass through the production line for powder coating. First of all, the powder coating particles are fluidized. For this process, the powder has to be cleaned from fibers, coarse particles and dirt.

Solution statement

- For this kind of application the customer is using Filtration Group dust removal units type SFR-09 015 024 x 16 S6S SL 85 SA in rectangular design
- Conical elements have been installed
- The dust filter cartridges are equipped with a microporous PTFE membrane (Ti 07/1) and guarantee an efficient surface filtration and long service life
- The filter material is electrically conductive with a filter surface of 180 m² 1.200 mm and a DM of 337 mm.



Customer value

- The produced high quality filtration systems work technically perfect
- Filtration Group offered a solution from project to plant maintenance, commissioning, aftermarket and service
- In fine dust range the filter material Ti 07/1 reaches a very high separation efficiency
- Filtration of dusty air from brake pad production with an efficiency of 99,97 % of all particles up to a size of only 0,3 micron and a outlet dust concentration of <1,0 milligrams per m³

Challenge

The nine dust collectors ordered by our customer Honeywell Friction Materials in Romania handle a volume flow of 100.000 m³/h. Thanks to an technological advantage, Filtration Group was able to prevail in the procurement against a strong local competition. The challenging requirement was, to deliver and install all units within three months. Prerequisite for the achievement of success was the optimal communication between customer, design company and construction team. Thanks to the optimal cooperation of Filtration Group Öhringen and Mahle Romania, the project was implemented in time.



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