

Automotive Industry Granulate DeDusting



"Pelletron" granulate deduster in the automotive industry

One of the major markets for the development of new engineering plastics is the automotive industry. The secondary transformers, especially injection moulders, encounter thus on a regular basis the supply of new grades with different mechanical behaviours and physical characteristics. A major producer in Europe for car dashboards Collins & Aikman Floor mats Europe N.V. has started to use granulates, filled with 20% glass fibre. Due to the dust sensitive nature of this product, severe problems occurred in the existing raw material handling systems towards the injection-moulding department. J-TEC was requested to eliminate as much as possible dust. During detailed engineering special care was taken towards abrasion wear resistance and towards implementation of the unit in the existing process. A turnkey installation is installed outside of the production department. The granulate is sucked out of the existing raw material silos and continuously dosed in a "Pelletron" granulate de-duster type P30, at a capacity of 1300 kg/hour. A closed loop system with cyclonic air filter separates the dust stream until removal in a big bag. The cleaned granulate falls in an intermediate storage hopper and sucked towards two pellet dryers at a total capacity of 800 kg/hour. Dust cleaning efficiencies are from 2500 down to 100 parts per million. Due to the implementation of this system an important reduction of maintenance costs and production losses are obtained, according to the request. The system is now running 3 months with great satisfaction.