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A YEAR OF INNOVATION AND EXPERIENCE

The year 2015 has been yet another year of innovation for Fimic, and its possible range of applications has grown even bigger while the machine is applied in many different materials and contaminations.

Recently, one of Fimic customers, which deals with the processing of solid urban waste, has inquired for a method for reducing its already good screens changing time. This was requested because the contamination in its stream is so high that the necessity of changing the 35 mesh screen is down to once every day. Fimic solution was to apply an innovative closing system with jaws and pistons, which in fact reduced the opening, screen changing and closing of the filter to a new minimum of 5 minutes all together, so that the downtimes have been considerably reduced.

The same system has been applied for the new Fimic filter for PVC, which is going to be tested soon and consequently introduced onto the international market.

Even in its traditional system, the Fimic filter remains the machine with the shorter screen changing time compared to other automatic filters. The process takes about 30 minutes, with a frequency that can go from three days in a week to a maximum of once every 15 days. This obviously depends from the level of contamination in the material, with no limits in the type of contamination: paper, wood, metal, sand, glass, rubber, aluminum, and other types of polymers. The only thing for the customer to do, will be to choose the level of filtration among the wide range of offered possibilities (from 140 to 14 mesh)!

Differently from other filters, which discharge continuously through an auger, Fimic valve discharging system enables the equipment to manage higher level of contamination and to discharge only when needed. In fact, with this system the discharge takes place only when the valve opens and this happens only when the scraping cycle is concluded.

A special note goes to the operating costs. Going from a manual screen changer to an automatic filter should enable a savings in the screens cost, that still represent an important item in the customers' budget.

If the manual filter's mesh is changed very frequently, the annual cost can be very important. With the Fimic, this costs will be considerably reduced, not to mention the higher efficiency that it is obtained from an automatic process not relying on an operator attention.

Fimic most recent installation In USA, a market where Fimic has been present for a number of years now, where in two different, however both challenging, applications.

One on the East Coast, which is dedicated to the processing of materials characterized by very aggressive contamination, as sand and soil. The line allowed the customer to increase its throughput, on this particular material, of about 20%, compared to what he was able to do with its hydraulic filter changer.

In North Carolina, the Fimic faces material with 12% paper contamination. The screen is 25 mesh but the line is a cascade, with a second filtration unit at the very end. The machine works in continuous with a pressure around 1500 psi. This is quite a challenge, considering the contamination. The material is processed on a cascade line that relays on two filtration stages. The material is then used for the production of Plastic Lumber.