



LEAKAGE-FREE SCREEN CHANGERS

by ECON allow efficient and reliable filtration. The model series "Thermosealer" comes with a special permanent air cooling for sealing the gap at the ends of the piston, preventing leakages under higher process pressures. A positive side effect is the guaranteed mobility of the pistons as a result of the thus increased piston play.

Optimized flow channels protect the melt, avoid clearances and ensure a lower pressure build-up and quickest possible change of colors.

The model designation ETS stands for the discontinuous and TSK for the continuous series.

The screens are exchanged when the system is stopped in the discontinuous model. In the continuous screen changer however, the screens are exchanged during operation. For this purpose the screen carrier piston is hydraulically extended and the screen package is then renewed. The "Thermosealer" series was developed among other things especially for extremely low-viscous melts such as PET and PA.

They come with an air cooling by means of blowers at the piston ends and are therefore leakage-proof. The gaps at the piston ends are thus cooled to a temperature below the melt temperature of the plastic material that is processed. This prevents any leakage of liquid plastic melt during the production.

Even the filtration of highly viscous melts such as PC are simplified by this technology, since the gap – in order to avoid any possible blockages of the piston in the block - can now be chosen at a larger dimension without the risk of leakage.

In these models it is necessary to bring the gaps at the piston ends to process temperature again for the screen change in order to hydraulically extend the screen carrier piston. Optimal flow channels and special perforated supporting plates ensure low shearing and low thermal stress, and protect the material during the filtering.

An extensive range of models for outputs ranging from 55 to 4,000 kg per hour (larger models available on request) allows for an optimal adjustment to material, fineness of the filter (up to 20 µm) and extruder output.

Test runs with material provided by the customer can be carried out at ECON's technical centre upon request.

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