



CONTINUOUS SCREEN CHANGER WITH BACKFLUSH SYSTEM

AUTOMATIC SCREEN CLEANING FOR MAXIMUM SCREEN SERVICE LIFE

High savings on screen costs, extremely short cleaning cycles at low melt loss and flushing the durable screens over the entire surface area are arguments clearly in favour of ECON's fully automatic backflush system. The patented backflush system uses the short, clearance-free flow channels of the melt during filtering and also during the backflushing. Your benefit: Intelligent concepts reduce pressure and melt losses to a minimum, and increase screen service life and production reliability.

FUTURE SYSTEMS

OPERATIONAL SEQUENCE (ESK „B“)

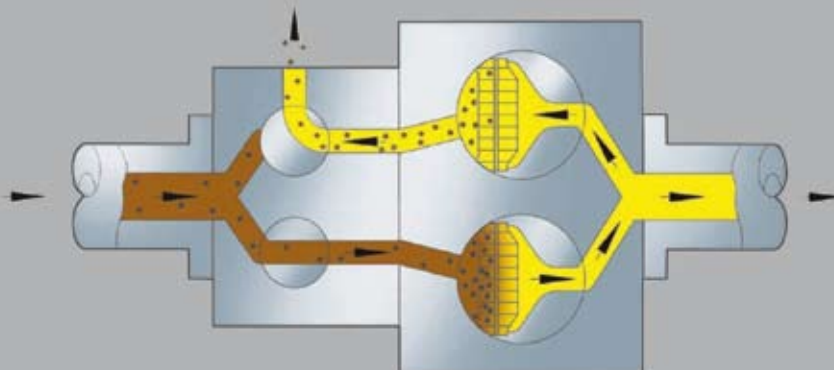
The continuous double-piston screen changer with backflush system fully automatically cleans the two screen packages that sit in the piston once a defined maximum pressure on the screens has been reached. The special backflush add-on prevents the movement of the screen piston and respective wear and tear. A piston in the backflush add-on diverts the material flow, so that only one screen support piston is passed through in the direction of flow. The screen package in the second screen support piston is now flowed through by the cleaned melt in a direction opposite of the normal direction of flow. As a result of the favorable channel geometry, dirt particles situated on the screen package are detached efficiently and removed with only little melt at the backflush add-on. The process is then performed in an analogous fashion on the other screen package.

ECON's backflush system utilizes the favorable flow geometry and the melt pressure in order to clean the screen packages in a optimal, careful and repeated fashion before a screen change becomes necessary. The relatively large free filter area allows higher throughputs at lower sizes. The technological advantages of the patented ECON backflush system allow an optimal adjustment between maximum backflush effect and smallest possible pressure loss on the die. This can be adjusted individually at any time to each application.

On request we will be happy to arrange a visit to one of our customers, additionally a test run with your material in ECON's technical centre is also possible.

ECON-Model	Extruder output	Screen Ø	Screen surface
ESK 90 „B“	up to 260 kg/h	76,30 mm	90 cm ²
ESK 140 „B“	up to 380 kg/h	96,30 mm	140 cm ²
ESK 240 „B“	up to 720 kg/h	125,30 mm	240 cm ²
ESK 340 „B“	up to 1.100 kg/h	148,30 mm	340 cm ²
ESK 490 „B“	up to 1.400 kg/h	176,30 mm	490 cm ²
ESK 630 „B“	up to 1.800 kg/h	200,30 mm	630 cm ²
ESK 830 „B“	up to 2.650 kg/h	230,30 mm	830 cm ²

The extensive range of available models (see table) allows for an optimal adjustment to material, filter fineness and extruder output. Higher outputs are available on request.



Processing capability for all thermoplastic materials

Maximum screen service life - high savings on screen costs

Optimal backflush effect - best possible flushing of screen over entire surface area

Low wear and tear to the screen support piston by backflush add-on

Highest production reliability - minimal staff costs - low need for maintenance

Approx. 65 % effective, free filter surface area

Fully automatic operation - minimal melt loss

Low investment costs, rapid amortization