ECON

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CONTINUOUS SCREEN CHANGER

A WIDE SPECTRUM FOR HIGHEST DEMANDS

The worldwide renowned ECON filter systems also stand out in the double-piston design, for rapid and simple changing of screens during on-going operation. Ranging from laboratory extruders over compounding systems and the production of engineering plastics, films and fibers right up to recycling plants - ECON melt filters stand out by their large variety and high processing precision. Your benefit: reliable and sturdy screen changers that are adjusted to meet the needs of the application at hand.

FUTURE SYSTEMS

OPERATIONAL SEQUENCE (ESK)

The continuous two-piston screen changer (without backflush) allows the simple exchange of the screens used for filtration during on-going operation. The melt which is distributed in normal operation among both pistons with a screen package each is guided after reaching a defined maximum pressure entirely over the second screen support piston after the hydraulic extension of the one screen support piston. After the exchange of the screen package, the first screen support piston is retracted again and thus integrated in the production sequence again. Then the second piston is moved accordingly.
In order to avoid any trapping of air in the melt (which would lead to a breakage of the filament, strand or film), ECON also offers an automatic venting system for the screen cavities (patented).

There is a large selection of high-quality screen changers for industrial applications which are ideally adjusted to the respective job profile. Tailor-made special designs are available. These include liquidor steam-heated screen changers for quicker temperature compensation for example.

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 40	up to 80 kg/h	50,30 mm	40 cm^2
ESK 55	up to 180 kg/h	58,30 mm	55 cm^2
ESK 90	up to 260 kg/h	76,30 mm	90 cm^2
ESK 140	up to 380 kg/h	96,30 mm	140 cm^2
ESK 240	up to 720 kg/h	125,30 mm	240 cm^2
ESK 340	up to 1.100 kg/h	148,30 mm	340 cm^2
ESK 490	up to 1.400 kg/h	176,30 mm	490 cm^2
ESK 630	up to 1.800 kg/h	200,30 mm	630 cm^2
ESK 830	up to 2.650 kg/h	230,30 mm	830 cm^2
ESK 1150	up to 3.500 kg/h	270,30 mm	1.150 cm^2
ESK 1400	up to 6.000 kg/h	300,30 mm	1.400 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

Optimal flow channel geometry - short dwell time

Low pressure build-up – minor thermal change of the melt

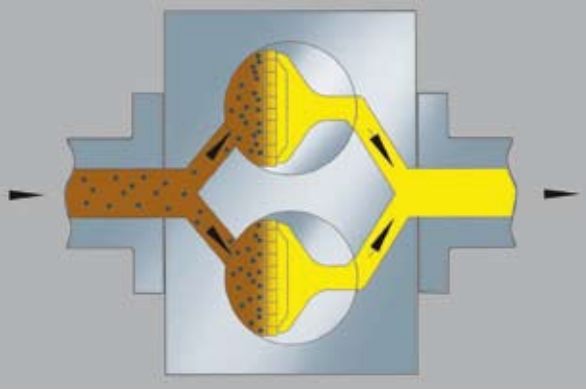
Freedom from any clearances accelerates change of material and colors

Approx. 65% effective, free filter surface area

Innovative production techniques and thermal treatment methods

High operational reliability and long service life

Low investment costs, rapid amortization



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