



## DISCONTINUOUS SCREEN CHANGER

### MAXIMUM PROTECTION AGAINST LEAKAGES UNDER HIGHEST PROCESS PRESSURES

The discontinuous ECON single-piston screen changers are efficient, reliable and leakage-free. They are also suitable for lowviscous materials such as PET and PA. The special permanent air cooling seals the gap at both ends of the piston and thus prevents leakages under highest process pressures. Optimized flow channels protect the melt, avoid clearances and produce a low pressure build-up.

**OPERATIONAL SEQUENCE (ESD, with special piston gap sealing - ETS)**

The screens are changed when the system is idle in the case of ESD and ETS screen changers. For this purpose the screen support piston is hydraulically extended and the screen package is then renewed. In the case of ESD screen changers, material may emerge at the piston ends in the region of the gaps (leakages), especially in the case of low viscous melts.

In case of the ETS screen-changer (**ECON Thermo Sealer**) these gaps which are filled with material are sealed at the piston ends by means of cooling air coming from a blower. In this way no plastic melt can emerge from these gaps during production. In order to allow the screen support piston to extend hydraulically in this model, the gaps at the piston ends must be brought to process temperature again for changing the screen.

Optimal flow channels and a special perforated supporting plate protect the material despite rapid processing.

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
ESD/ETS 20	bis 55 kg/h	50,30 mm	20 cm <sup>2</sup>
ESD/ETS 26	bis 75 kg/h	58,30 mm	26 cm <sup>2</sup>
ESD/ETS 45	bis 160 kg/h	76,30 mm	45 cm <sup>2</sup>
ESD/ETS 70	bis 280 kg/h	96,30 mm	70 cm <sup>2</sup>
ESD/ETS 120	bis 500 kg/h	125,30 mm	120 cm <sup>2</sup>
ESD/ETS 170	bis 600 kg/h	148,30 mm	170 cm <sup>2</sup>
ESD/ETS 245	bis 850 kg/h	176,30 mm	245 cm <sup>2</sup>
ESD/ETS 315	bis 1.400 kg/h	200,30 mm	315 cm <sup>2</sup>
ESD/ETS 415	bis 2.500 kg/h	230,30 mm	415 cm <sup>2</sup>

*The comprehensive range of types (see table) allows an optimal adjustment to material, fineness of the filter and extruder output. Higher outputs are available on request.*

**Processing capability of thermoplastic materials of even low viscosity - PET, PA**

**Entirely free from leakages through air cooling at piston ends**

**Approx. 65% effective filter surface for more throughput**

**Flow-optimized design of the melt channels**

**Extremely low pressure build-up protects material and screen**

**Freedom from clearances speeds up change of material and colors**

**Low expenditure for power, staff and maintenance**

**Low investment costs, rapid amortization**

