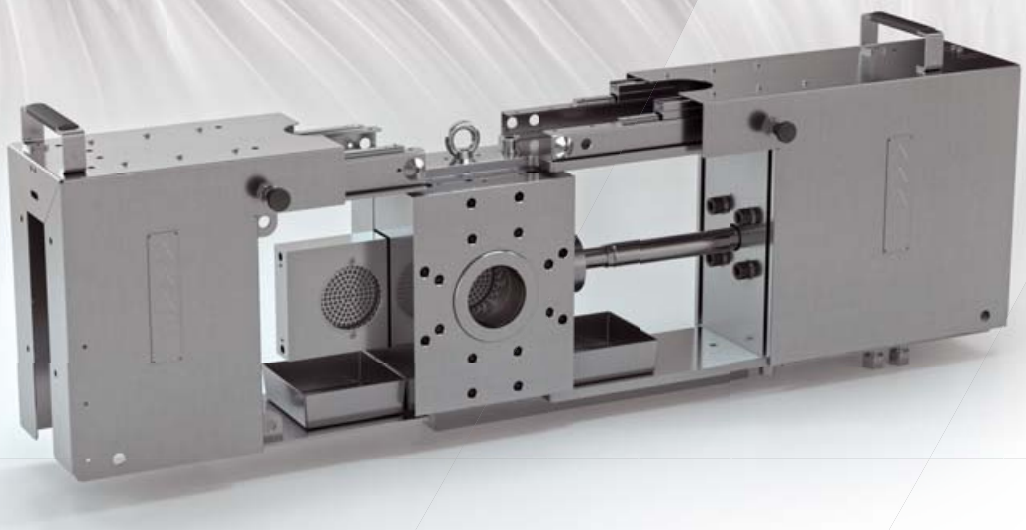
MAAG Group
a DOVER company

PUMP & FILTRATION SYSTEMS ›



FSC OEM - Compact Design

Optimized flat screen changer for processing of plastics

MAAG

The flow optimized new version of MAAG´s FSC hydraulic and manual screen changers assist operators of plastic extrusion lines in achieving a reduced equipment footprint, reduced residence time and improved residence time distribution. The ultra compact design is maintenance friendly, and provides precise flow even at high discharge pressures. The ultra short flow channels reduce pressure drop, promote a more uniform product temperature, allowing this generation of screen changer to perform where others have reached their limits.

Superior performance benefits compared to existing designs

Holistic design of the complete screen changer package results in many major improvements:

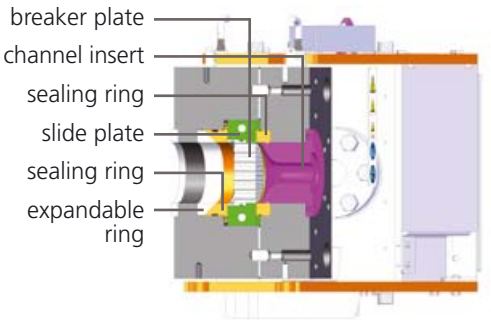
- Reduction in pressure loss, residence time and residence time distribution due to shorter, flow optimized channels
- Increased production rate, product quality, energy efficiency and equipment life span
- Elimination of pressure fluctuations allowing a significant reduction in rate of material consumption
- Maintenace friendly due to easy access to the sealing package

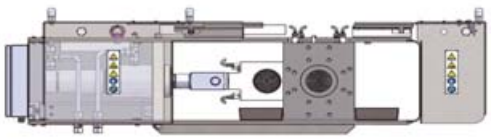
FSC OEM

Flat screen changer for processing of plastics

Technical specifications screen changer:	
Housing, cover:	Alloy steel
Slide plate:	Hardened alloy steel
Breaker plate:	Hardened alloy steel
Heating:	Electric / liquid

Application limits:	
Viscosity:	from 10 to 10,000 Pas
Temperature:	up to 325°C
Operational pressure:	up to 700 bar
Diffential pressure:	up to 200 bar





Typical range of products

- Polymer melts such as: LDPE/HDPE/HIPS/ABS/PET/PP/PS/PC/PBT/PLA/PA6.
- Specific melt density range of 0.73-1.7
- Special materials, like silicon rubber or fluorinated polymers on request

Accessories

- Base and support cart
- Adapter flanges standard
- Pressure and melt temperature transducers
- Drive systems, controls and complete system solutions

Sealing technology

Different application in melt filtration require flexible sealing systems which can manage low viscosities and challenging high operation temperatures. MAAG offers dedicated flexibility based on a hybrid based material mix and unique perfomance.

Options

- Covers made of stainless steel
- Fluid heating
- Terminal switch box UL/ATEX
- Vertical mounting
- Collector baskets different sizes
- Adapter flange disk design
- Quick entry tool for screen removal
- Fastening system for safe lifting
- Handling bars in different materials
- Engineered clearance classes

Overview FSC OEM typical throughputs per application

Capacity* [kg/h]										
	Product viscosity [Pas/10-1s]	1,500 - 4,500	3,000 - 4,500	1,500 - 4,500	800 - 3,000	1,000 - 2,000	800 - 2,500	800 - 3,000		
	Specific weight [gr/ccm]	0.75	0.95	0.75	1.15	0.75	1.2	1.5		
		HDPE	**ABS**	**LLDPE**	**PC**	**PP**	**PET**	**PA**	**Extruder size** [inch]	[mm]
120 - 300		96	76	76	76	76	76	76	2.3 - 3.5	63.5 - 88.9
300 - 500		125	125	125	125	125	125	125	3.5 - 4.5	88.9 - 114.3
500 - 800		176	148	148	148	148	148	148	4.5 - 6	114.3 - 152.4
800 - 1,100		200	176	176	176	176	176	176	6 - 8	152.4 - 203.5
1,100 - 2,000		230	230	176	230	230	230	230	8 - 10	203.5 - 254
2,000 - 3,000		250	250	250	250	250	250	250	10	254

* theoretical data assumed at 2,500 Pas and 100 bar differential pressure and 100 micron aperture width, at fluxrate of approx. 5.5 kg/h x cm², depending on viscosity, filtration grade and degree of contamination

MAAG Group
a DOVER company

www.maag.com

27_EN_2022/09