

SSC

Compact screen changer for reliable melt filtration



The compact single-piston screen changers SSC from MAAG provide an alternative for extrusion applications which allow for interruptions in the melt stream during screen changeover. SSC operate without any additional seal and their sturdy construction guarantees reliable and leak-free filtration of polymer melts. The rheologically optimized flow channel directs the melt flow optimally and with a short residence time into the screen cavity. The breaker plate is fitted with screen mesh suitable for the required filtration size. The screen changer is operated by a hydraulic piston.

Your benefits

- Simple operation and uncomplicated screen changing
- High operational reliability
- Short material residence time
- Leak-free mode of operation
- Low pressure consumption
- Flow channel geometry without any dead spots

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A range of typical applications

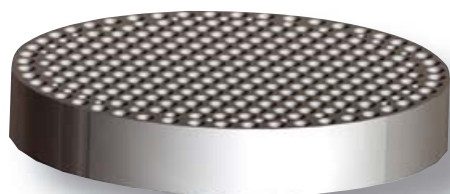
- Flat films
- Foam films
- Blown films
- Plates
- Pipes
- Profiles
- Blown mouldings
- Fibres
- Granulation
- Compounding

Accessories

- Connection adapter
- Support carriages
- Control systems
- Breaker Plates
- Protective devices

Options

- Coated flow channels
- Stainless steel design
- Also available: C-SSC with two cavities as a semi continuous screenchanger



Technical specifications:

Screen diameter:	30 mm to 200 mm
Filtration area:	7 cm ² to 314 cm ²
Mounting:	Compact mounting dimensions, all positions possible
Technology:	Proven sealless single-piston design

Application limits:

Temperature:	Up to 350 °C
Operating pressure:	350 bar
Pressure differential:	Up to 100 bar (200 bar optional)

On the inlet side, the rheologically optimized flow channel directs the melt flow into the screen cavity. The breaker plate is fitted with screen mesh suitable for the required filtration size. The cleaned melt flow leaves the filter housing.

To change the screen, the piston is moved out of the housing by means of a hydraulic cylinder and then returned to the production position with a clean screen. During the short screen change procedure, the melt flow is interrupted, i.e. the mode of operation is discontinuous.

Size	Throughput* [kg/h]	Screen diameter [mm]	Filter area [cm ²]
030	25 - 40	1 x 30.0	1 x 7
046	65 - 100	1 x 46.3	1 x 17
058	100 - 150	1 x 58.3	1 x 27
076	160 - 250	1 x 76.3	1 x 45
096	260 - 400	1 x 96.3	1 x 72
116	390 - 600	1 x 116.3	1 x 106
125	450 - 700	1 x 125.0	1 x 123
148	650 - 1,000	1 x 148.3	1 x 173
176	850 - 1,300	1 x 176.3	1 x 244
200	1,100 - 1,700	1 x 200.0	1 x 314

* at melt viscosity 1,000 Pas and flux rate 5,5 Kg/h·cm², dependent on filtration grade and degree of soiling.

