



HSC

Manual screen changer for extrusion processes



Manual screen changers from MAAG have been the first choice of cost-effective filtration systems in extrusion lines for many years. Starting at size 45, the manual screen changers optionally come with transmission gearing. Here, the breaker plate is equipped with patented gearing and a pinion which allows an effortless screen change even in restricted space conditions or high sealing pressures. The manual screen changer guarantees the protection of gear pumps and fine extrusion die gaps from damage and dirt accumulation.

Your benefits

- Simple operation with quick screen change
- 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

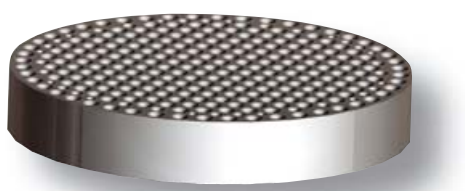
- Flat films
- Foam films
- Blown films
- Plates (Sheet)
- Pipes
- Profiles
- Blown mouldings
- Fibres
- Pelletizing
- Edge cut-off recycling
- Compounding

Accessories

- Connection adapter
- Base frames
- Screen plates
- High-pressure breaker plate

Options

- PVC-design
- Coated flow channels
- Stainless steel design



Technical specifications:

Screen diameter:	20 to 160 mm
Filtration area:	3 cm ² to 201 cm ²
Mounting:	Compact mounting dimensions

This robust and solid design of the screen changer, which consists of a few elements only, is equipped with a pressure-adaptive sealing system as standard. This sealing system adjusts the required sealing forces to the actual melt pressure automatically. Rheologically optimized flow channels and compact dimensions guarantee a short residence time of the molten material in the filter and a simple installation, even in existing extrusion lines.

One breaker plate remains in the melt flow during the operation of the line, while the second breaker plate equipped with the clean filter cloth is in stand-by position outside the housing. The line has to be stopped for a short while to accomplish the screen change procedure. Then the clean breaker plate is moved into the melt flow channel by a simple manual swivelling movement, while the contaminated breaker plate is positioned outside.

Application limits:

Temperature:	up to 300 °C
Operating pressure:	700 bar
Pressure differential:	up to 100 bar

Size	Throughput* [kg/h]	Screen diameter [mm]	Filter area [cm ²]
020	10 - 20	1 x 21	1 x 3
030	25 - 40	1 x 31	1 x 7
050	70 - 110	1 x 51	1 x 20
060	100 - 150	1 x 62	1 x 28
080	200 - 300	1 x 83	1 x 50
090	230 - 350	1 x 93	1 x 64
100	300 - 450	1 x 103	1 x 79
120	400 - 600	1 x 123	1 x 113
160	700 - 1,100	1 x 163	1 x 201

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