

Filtering



Extruder Filters

Extruder filters, also known as extruder screens, are either single-layer or multi-layer wire filtration system used in the plastic and polymer extrusion process. It is designed to keep away mixing of foreign particles in finally equipped extrusion product and provide a clean and clear extrusion for plastic and rubber processing machinery.

According to extruder filter shapes, we offer circle, belt and kidney-shaped extruder filters in a variety of weave types and sizes to meet the requirements of your specific requirements for filtration.

Benefits for sieving

- ✓ Precise wire mesh filtration
- ✓ Excellent heat, rust and wear resistance
- ✓ Less maintenance & repair costs
- ✓ Smooth screening surface with no sharp edges, burrs or acute angles.
- ✓ Available in diverse shapes, specifications and weave types

- ✓ Anti-abrasive & anti-corrosive properties.
- ✓ Durable and long performance life

Circle Extruder Filter

As its name implies, circle extruder filter commonly refers to round-shaped extruder filters commonly used in cylinder extrusion screen changers. Our circle extruder filters have robust structure, excellent abrasion and corrosion resistance and enjoy a long service life.

Both single layer and multi-layer circle extruder filters are available in a variety of materials and sizes. Generally, single layer extruder filter is commonly used in plastic and blow film industries where raw material contamination is less and the pressure within the extruder head is lower. While, multi-layer extruder filter is commonly used in plastic, fiber and polymer industries where requires fine filtration to prevent the mixing of foreign particles.

Specification

- Material: stainless steel 304, 304L, 316, 316L, etc.
- Weave type: plain weave, twill weave, dutch weave
- Popular filter size and mesh size (1 layer)
 - OD 58mm: Mesh 20, 40, 60.
 - OD 68mm: Mesh 20, 40, 60, 80.
 - OD 170mm: Mesh 14, 80.
 - OD 200mm: Mesh 20, 80.
 - OD 240mm: Mesh 20, 80.



Mesh Count	Wire Diameter (mm)	Aperture (mm)
6 × 6	0.900	3.31
10 × 10	0.56	1.98
20 × 20	0.4	0.9
30 × 30	0.28	0.57
40 × 40	0.224	0.411
50 × 50	0.20	0.31
60 × 60	0.16	0.263
80 × 80	0.14	0.178
100 × 100	0.112	0.142
120 × 120	0.09	0.122
150 × 150	0.063	0.109
12/72	0.50/0.375	0.300
24/110	0.355/0.25	0.125
50/250	0.14/0.11	0.063

Extruder Filter Belt

Extruder filter belt commonly refers to reverse dutch weave filter belts for continuous screen changers. Made of high tensile stainless steel wires, it can load greater strength in filtration. Its special belt structure allows the extruder having an uninterrupted production and excellent filtration performance while screening impurities out of molten plastic. As a result, it is widely used in cast film, blown film production and plastic filtering process.

Specification

- Material: stainless steel 304, 304L, 316, 316L, etc.
- Popular belt width: 40–210 mm. Maximum width is 0.5 m.
- Weave type: reverse dutch weave
- Standard length: 10 m or customized.
- Popular mesh size
 - 48 × 10 mesh for 400 nominal micron.
 - 72 × 15 mesh for 250 nominal micron
 - 132 × 17 mesh for 170 nominal micron
 - 152 × 24 mesh for 160 nominal micron
 - 260 × 40 mesh for 55 nominal micron



Mesh Size (warp/inch × weft/inch)	Wire Diameter (mm) (warp × weft)	Fineness Of Filtering (micron)	Weight (kg/m ²)	Width (mm)*	Length (m)
48 × 10	0.5 × 0.5	400	3.63	40–210	10,000
63 × 18	0.4 × 0.6	220	4.14	40–210	10,000
72 × 15	0.45 × 0.55	250	4.78	40–210	10,000
100 × 16	0.35 × 0.45	190	3.87	40–210	10,000
107 × 20	0.24 × 0.60	210	3.34	40–210	10,000
120 × 16	0.35 × 0.45	180	4.49	40–210	10,000
132 × 17	0.32 × 0.45	170	4.24	40–210	10,000
152 × 24	0.27 × 0.4	160	3.73	40–210	10,000
160 × 17	0.27 × 0.45	160	2.02	40–210	10,000
170 × 18	0.27 × 0.45	160	4.01	40–210	10,000
171 × 46	0.15 × 0.30	130	2.00	40–210	10,000
180 × 20	0.27 × 0.45	170	4.29	40–210	10,000
200 × 40	0.17 × 0.27	120	2.17	40–210	10,000
240 × 40	0.15 × 0.25	70	1.98	40–210	10,000
260 × 40	0.15 × 0.27	55	2.19	40–210	10,000
290 × 76	0.09 × 0.19	40	1.27	40–210	10,000
300 × 40	0.15 × 0.25	50	2.31	40–210	10,000
300 × 80	0.15 × 0.2	35	2.49	40–210	10,000

Kidney-Shaped Extruder Filter

Kidney-shaped extruder filter is a special shape screen for continuous screen changers. Both single layer and multi-layer extruder filters are available in a variety of weave types and sizes. Commonly, single layer extruder filter is used in blown film industry with lower pressure requirements. While multi-layer extruder filter is used in blown film, fiber and glass industries with fine filtration requirements.



Specification

- Materials: stainless steel 304, 304L, 316, 316L, etc.
- Weave type: Plain weave, twill weave, dutch weave
- Sizes: custom made.
- Processing: spot welding

Mesh Count	Wire Diameter (mm)	Aperture (mm)
6 × 6	0.900	3.31
10 × 10	0.56	1.98
20 × 20	0.4	0.9
30 × 30	0.28	0.57
40 × 40	0.224	0.411
50 × 50	0.20	0.31
60 × 60	0.16	0.263
80 × 80	0.14	0.178
100 × 100	0.112	0.142
120 × 120	0.09	0.122
150 × 150	0.063	0.109
12/72	0.50/0.375	0.300
24/110	0.355/0.25	0.125
50/250	0.14/0.11	0.063