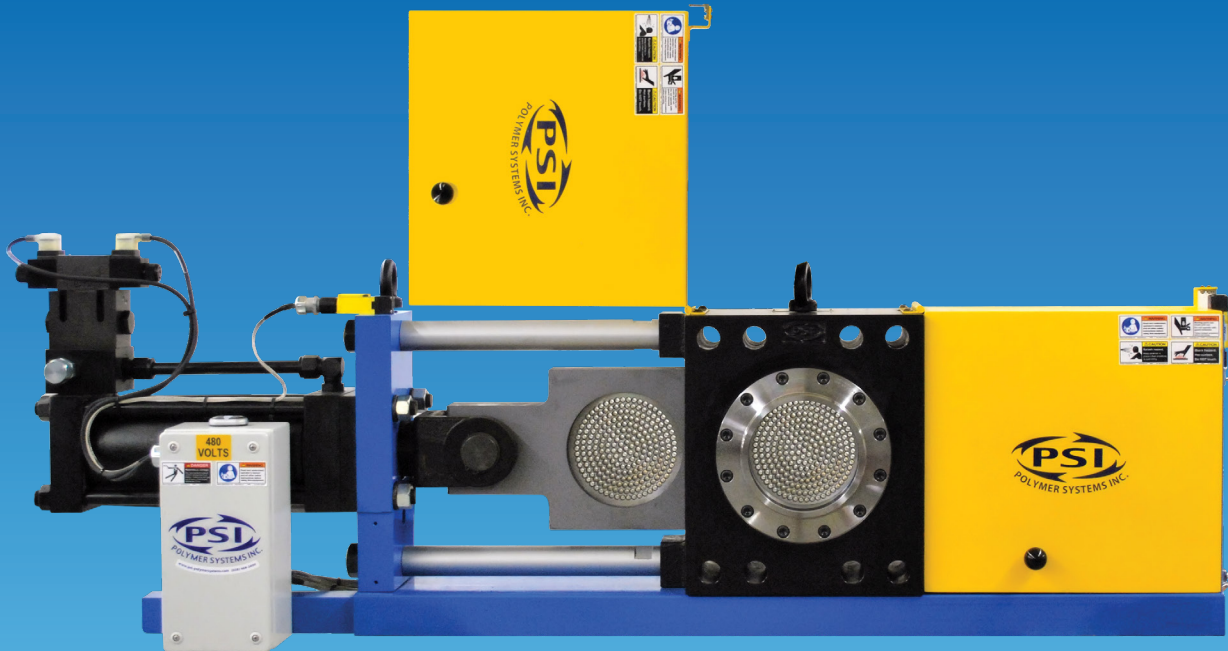




Get More from Your Process



Hydraulic Screen Changer (HSC)

Hydraulic Slide Plate Screen Changers (HSC) offer quick-change polymer filtration for processes that tolerate a momentary disruption. Ideally suited to occasional screen changes, the HSC also handles bursts of contamination, accommodating rapid screen changes until contamination levels return to normal. Common applications include film, sheet, corrugated pipe, pelletizing, reclaim, and a host of others.

The design uses a two-position reciprocating slide plate to rapidly move screen packs in and out of the melt stream. Inlet volume reduction and material velocity are optimized through a streamlined bore that accommodates a feed screw extension. A removable downstream bushing provides customized flow transition and accommodates screw pull-through.

The heart of the system is PSI's patented, life-time warranted pressure-activated sealing system. Seal activation is by an expandable steel pressure ring that instantly reacts to changes in head pressure and never wears out. The no-maintenance design provides an exceptionally long service life and never requires operator adjustment.

Features

- Patented, leak-free pressure-activated sealing system
- Oversized screen packs for low restriction / longer run times
- Screen changes in under a second
- Extruder screw pull-through
- Low residence time
- Removeable downstream reducer bushing
- Electrically interlocked guards
- Maximum open-area breaker plates
- Heater leads protected from melt drool

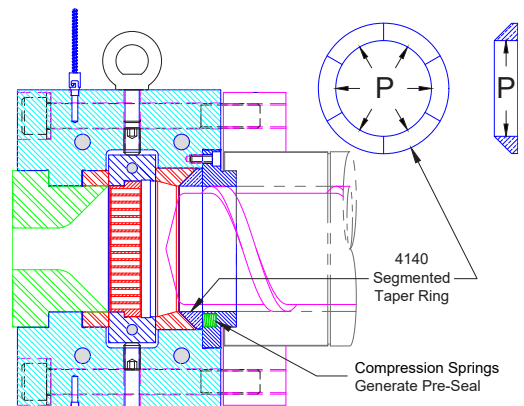
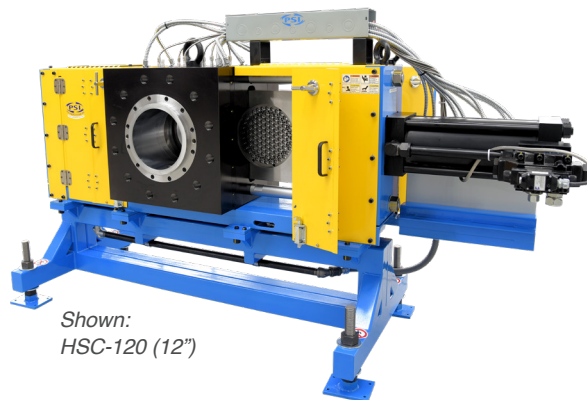
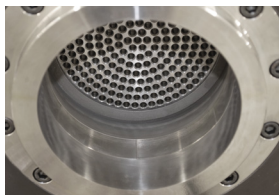
Hydraulic Screen Changer (HSC)

Options

- Application-specific materials of construction
- Chrome or nickel plating
- Three (3) zone for smaller units (HSC-25 through HSC-45)
- Special voltage heaters
- Hydraulic cylinder proximity sensors
- Internal fluid heat/cool
- Special seals for extrusion coating – high heat/low viscosity
- Vertical mount (up to HSC-65)
- High temperature to 850°F [454°C]
- Special design breaker plates to decrease delta pressure
- Co-extrusion check valve to prevent material backflow during screen change
- Expanded (foamed) polymers package
- Hydraulic Power Unit manifold for multiple screen changer operation
- Cart mounted Hydraulic Power Unit
- 24VDC or 220VAC solenoid control (110V standard)
- CE / ATEX compliance

Accessories

- Hydraulic Power Unit
- Support cart
- Pressure instruments
- Heat control
- Hot oil control units



Technical

Specifications	Standard
Bolt-thru connections	HSC-25 - HSC-65
Bolt-on connections	HSC-80 - HSC-150
Operating Temperature	Up to 650°F (343°C)
Max. Inlet Pressure HSC-25 - HSC-80	10,000 PSI (690 bar)
Max. Inlet Pressure HSC-100 - HSC-150	5,000 PSI (345 bar)
Max. Differential Pressure	3,000 PSI (207 bar)
Solenoid control valve voltage	110V (optional 24V)

Model	Max. Throughput*		Max. Clearance Bore Diam.		Screen Diameter		Screen Area		Zone	Heater kW		Weight	
	lbs/hr	kg/hr	inch	mm	inch	mm	in ²	cm ²		Body	Plate	lb	kg
HSC-25	600	227	2.55	64.8	2.878	73	6.5	41.9	1 (opt 3)	2.6	0.6	270	123
HSC-35	1,100	418	3.59	91.2	3.94	100	12.2	78.6	1 (opt 3)	3.8	1.2	385	175
HSC-45	1,950	726	4.78	121.4	5.19	132	21.1	136.4	1 (opt 3)	5.6	1.6	560	255
HSC-60	3,100	1,157	6.02	152.9	6.56	167	33.8	218.2	3 (opt 1)	8	1.6	775	352
HSC-65	3,550	1,361	6.55	166.4	7.06	179	39.2	252.7	3 (opt 1)	8	1.6	775	352
HSC-80	5,400	2,042	8.05	204.5	8.69	221	59.3	382.5	3	16	3.2	1,650	749
HSC-100	9,000	3,629	10.01	254.3	10.81	275	91.8	592.4	3	32	6	3,460	1,570
HSC-120	13,000	5,444	12.01	305.1	12.88	327	130	840.0	4	32	6	3,875	1,758
HSC-150	20,000	8,392	15.01	381.3	15.94	405	200	1,287.5	4	42	9	4,800	2,177



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