

## Continuous piston screen changer

### Continuous piston screen changer introduction:

**Continuous piston screen changer** includes single piston screen changer and double piston screen changer. Double piston **plastic extruder screen changer** for extrusion applications includes double filter screens type, normal four filter blocks type, and four filter blocks type backflush screen changer.

### 1) Single piston screen changer with two filter screens:

#### Product introduction:

- ◆ Adopts high-performance steel and special processing, heating processing technology, it specially designs for high pressure technological.
- ◆ High wear proof, high withstand voltage, high precision integrated design.
- ◆ At the pressure of 40-50Mpa, temperature of 300-400℃, it won't affect other usability.
- ◆ Continuous piston screen changer for plastic extruder suits for high pressure product manufacturing, especially for blown film, cast film, drawbench, pelleting etc. almost all of the thermoplastic plastics.

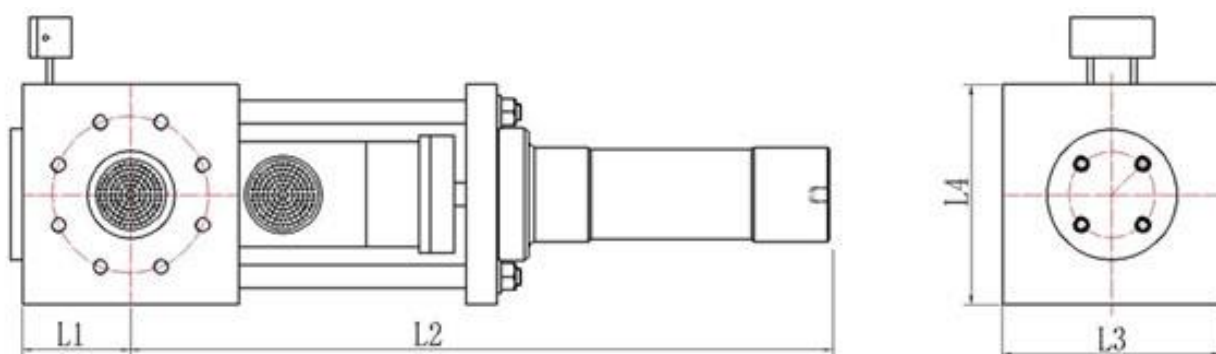
#### Features and advantages:

- ◆ With highly precise design, abrasive resistant, high pressure performance
- ◆ Plastic extruder screen changer works well even under the high temperature of 400℃ and high pressure of 40Mpa-50Mpa.
- ◆ Nonstop screen changing, leakfree design. Automatic exhaust design.

#### Single piston screen changer pictures, drawings, and technical data:

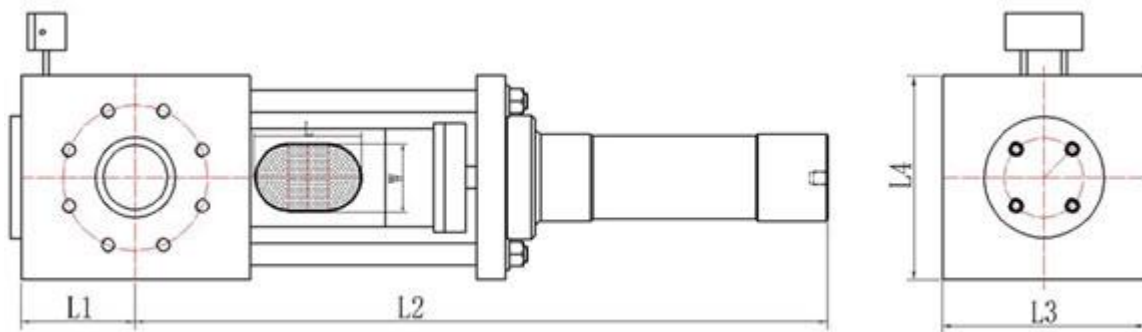


#### a) ZB-SP-R series single column double work station screen changer:



Type	Output Kg/h	Size (mm)				Screen size		Heating tube		
		L1	L2	L3	L4	Φ(mm)	cm <sup>2</sup>	Quantity	V	KW
ZB-SP-R-100	50~150	100	700	180	180	Φ80	50	4	230/400	0.5/0.8
ZB-SP-R-120	100~260	110	730	210	210	Φ100	78	4	230/400	0.6/1.0
ZB-SP-R-145	200~380	125	800	240	240	Φ125	123	4	230/400	0.7/1.2
ZB-SP-R-170	290~600	135	860	260	260	Φ150	177	4	230/400	1.0/1.6
ZB-SP-R-195	400~820	150	960	300	300	Φ175	240	4	230/400	1.6/2.0
ZB-SP-R-220	600~1300	160	1150	330	330	Φ200	314	8	230/400	1.0/1.4
ZB-SP-R-250	800~2000	180	1250	380	380	Φ230	415	8	230/400	1.6/2.0

**b) ZB-SP-E series single pillar double working positions screen changer:**



Type	Output Kg/h	Size (mm)				Screen size		Heating tube		
		L1	L2	L3	L4	(mm)LxW	cm <sup>2</sup>	Quantity	V	KW
ZB-SP-E-120	180~450	130	870	210	210	100x145	124	4	230/400	0.8/1.2
ZB-SP-E-145	280~600	145	900	240	240	125x170	179	4	230/400	0.9/1.5
ZB-SP-E-170	600~1300	185	1100	260	260	150x230	296	4	230/400	1.6/2.2
ZB-SP-E-195	790~2500	200	1200	300	300	175x270	406	4	230/400	2.3/3.0
ZB-SP-E-220	990~3500	215	1300	330	330	200x300	514	8	230/400	2.0/2.5
ZB-SP-E-270	1570~4600	220	1350	380	380	230x310	600	8	230/400	2.0/2.5
ZB-SP-E-270	1950~6000	240	1450	410	410	250x345	737	8	230/400	2.5/3.0

**2) Double piston continuous screen changer with two filter screens:**

**Product introduction:**

- ◆ This series continuous piston screen changer for extrusion line designed for double channel double filter screen structure, when change screen, one screen is replaced, the other one is non-stop material flow.
- ◆ The exhaust system is designed, which can fully exhaust the gas from material and waiting replaced multi-orifice, prevent changing screen process the gas was formed in product, improve product quality.
- ◆ Double channel design improves filter area, which can meet higher output and higher quality production demand.
- ◆ Larger filter area suits different material, different product extrusion production.
- ◆ With good sealing properties, rigid sealing, long service life.
- ◆ With the function of filling material, exhaust gas and pollution discharge which can insure change screen process non-stopped.
- ◆ According to customer's requirements we can specific design, process different dimensions.
- ◆ Reasonable structure design, convenient operation, good effect.
- ◆ The same size cylinder screen can be processed in circle, curved, Oval, cylindrical shape etc.
- ◆ With safety cover design.
- ◆ Applications to: chemical fiber, blown film, flat film, cast film production, pipe ,sheet, wire rod, fiber's manufacturer, pelletizing line, recycle, etc.



**Plastic extruder screen changer features and advantages:**

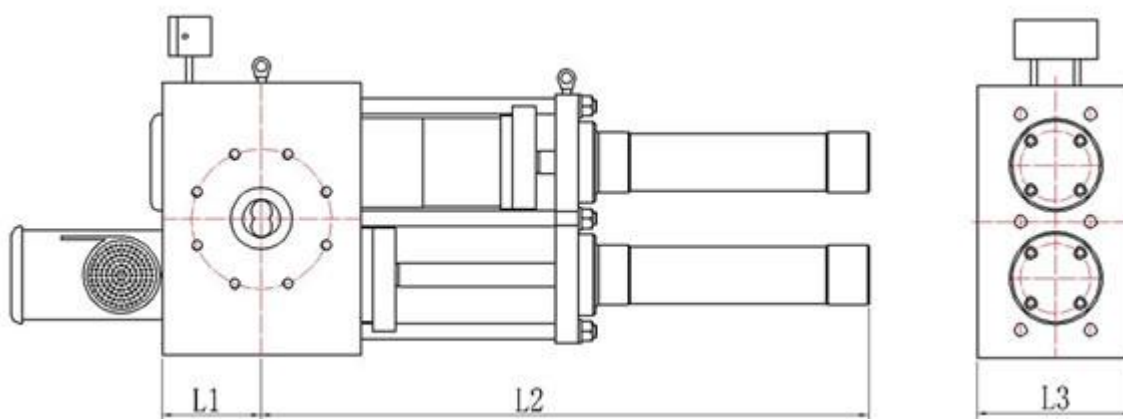
- ◆ Large filtering area, applicable to extrusion production of a wide range of polymers with different processing
- ◆ Unique sealing system ensures perfect sealing effect.
- ◆ Advanced designing and precise manufacturing, along with delicate gas exhausting system realize its dual function of filtering and gas exhausting.
- ◆ Both standard specification from 80mm to 250mm and special design upon customer's specific request are available.
- ◆ Outside cover brings the machine good appearance and secure operation.
- ◆ The whole system boasts very reasonable design, easy operation and perfect performance.

**Double piston screen changer pictures, drawings, and technical data:**



two cavities type double piston screen changer

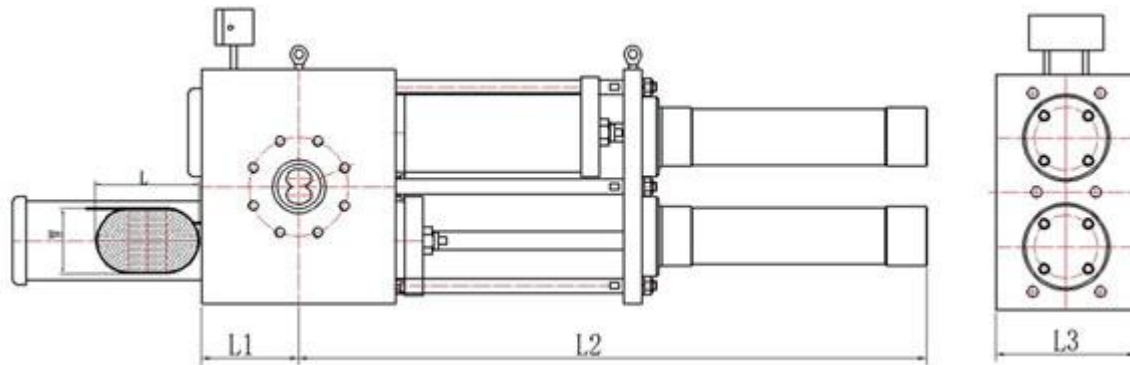
**a) ZB-DP-2R series double piston hydraulic screen changer with round screens:**



Type	Output Kg/h	Size (mm)			Screen size		Heating tube		
		L1	L2	L3	Φ(mm)	cm <sup>2</sup>	Quantity	V	KW
ZB-DP-2R-80	30~180	100	800	170	Φ60	28x2	6	230/400	0.5/0.7
ZB-DP-2R-100	80~280	110	830	200	Φ80	50x2	6	230/400	0.8/1.1
ZB-DP-2R-120	130~380	125	850	220	Φ100	78x2	6	230/400	0.9/1.2
ZB-DP-2R-145	300~700	165	1020	270	Φ125	123x2	6	230/400	1.4/1.8
ZB-DP-2R-170	400~1100	195	1120	310	Φ150	177x2	6	230/400	1.6/2.2
ZB-DP-2R-195	650~1500	220	1270	380	Φ175	240x2	6	230/400	2.5/3.5
ZB-DP-2R-220	850~1900	245	1350	410	Φ200	314x2	10	230/400	2.3/2.8
ZB-DP-2R-250	1100~2600	280	1500	460	Φ230	415x2	12	230/400	2.5/3.2



**b) ZB-DP-2E series double piston hydraulic screen changer with ellipse cavities:**



Type	Output Kg/h	Size (mm)			Screen size		Heating tube		
		L1	L2	L3	(mm)L*W	cm <sup>2</sup>	Quantity	V	KW
ZB-DP-2E-120	200~800	150	850	220	100×145	124×2	6	230/400	0.8/1.2
ZB-DP-2E-145	400~1100	165	1020	270	125×170	179×2	6	230/400	1.4/2.0
ZB-DP-2E-170	680~1500	220	1300	310	150×230	296×2	6	230/400	1.6/2.2
ZB-DP-2E-195	1000~2600	240	1420	380	175×270	406×2	6	230/400	2.5/3.5
ZB-DP-2E-220	2300~4400	280	1665	410	200×300	514×2	10	230/400	2.5/3.2
ZB-DP-2E-250	2900~6000	310	1720	460	230×310	600×2	12	230/400	2.8/3.5
ZB-DP-2E-270	2900~6000	350	1900	500	250×345	737×2	12	230/400	3.2/4.0

**3) Double piston large capacity screen changer:**

**Features and advantages:**

- ◆ Large filtration reduces screen changing frequency, improved production efficiency
- ◆ Superior sealing system completely eliminates polymer leakage.

**Applications:**

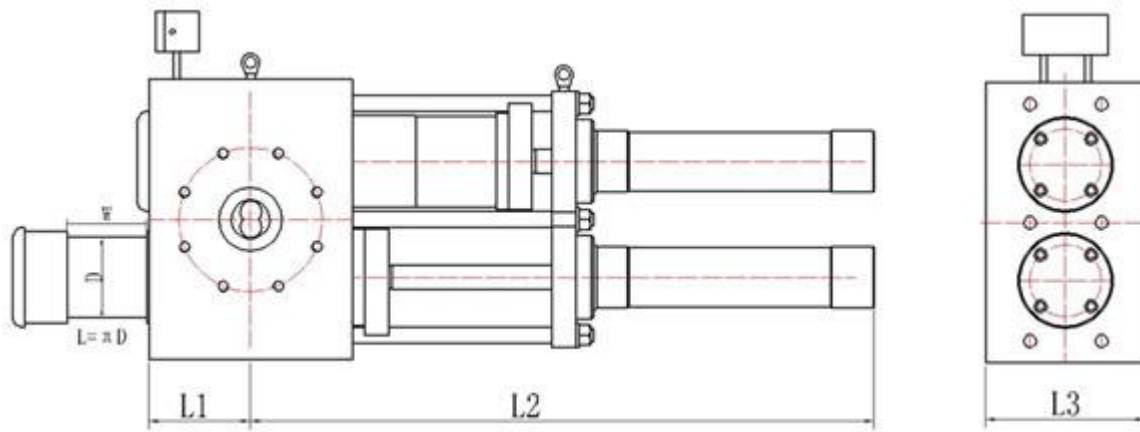
This [piston hydraulic screen changer](#) is mainly used for Compounding (master batch, filter) fibers (monofilament) pelletizing (strands and under water) recycling of most polymers

**Continuous hydraulic double piston large capacity screen changer pictures, drawings, and technical data:**



large capacity double piston screen changer





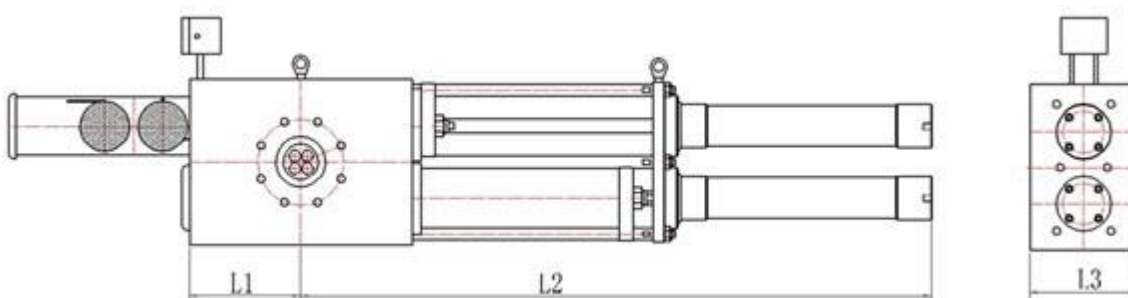
Type	Output Kg/h	Size (mm)			Screen size		Heating tube		
		L1	L2	L3	(mm)L*W	cm <sup>2</sup>	Quantity	V	KW
ZB-DP-2L-100	450~1200	110	700	200	251×80	200×2	6	230/400	0.8/1.1
ZB-DP-2L-120	800~1800	125	845	220	314×100	314×2	6	230/400	0.9/1.2
ZB-DP-2L-155	1000~2600	160	940	270	408×130	530×2	6	230/400	1.4/1.8
ZB-DP-2L-175	2300~4400	185	1135	310	471×180	846×2	6	230/400	1.6/2.2
ZB-DP-2L-195	2900~6000	200	1270	380	533×190	1012×2	6	230/400	2.0/2.4
ZB-DP-2L-220	3900~10000	220	1400	410	596×200	1192×2	10	230/400	2.3/2.8

#### 4) Double piston hydraulic screen changer with four cavities:

##### Features and advantages:

- ◆ The design is four channels and four filters. The four filters are working simultaneously without stopping material flowing or mass production. Thus the non-stop screen changing can be achieved.
- ◆ The exhaust air system is able to fully discharge the air inside the material or perforated plate which is to be replaced. It can avoid air forming in the product during screen changing, thus improve the product quality.
- ◆ Four channel design greatly increase filtering area, and meet the higher quality or quantity production demand.
- ◆ Bigger filtering areas are applicable for different material or extrusion products.
- ◆ It has better sealing characteristics with rigid sealing. The service life is longer.
- ◆ It has material filling, air exhausting and impure material discharging function, which guarantees continuous production during screen changing.
- ◆ It is applicable for high productivity, high efficiency, high quantity and continuous production of large extrusion plant.
- ◆ It has reasonable structure design, easier operation and better working effect.
- ◆ We can customize various sizes or standards based on the client's requirement.
- ◆ It is configured with safety protection cover design.
- ◆ It is used for chemical fiber, blown film, flat film, cast film, pipe, plate, wire, fiber, granulating, recycling pelletizing, etc.

##### Double piston four cavities hydraulic screen changer picture, drawing, and technical data:





Type	Output Kg/h	Size (mm)			Screen size		Heating tube		
		L1	L2	L3	Φ(mm)	cm <sup>2</sup>	Quantity	V	KW
ZB-DP-4R-120	260~760	180	1160	220	Φ100	78×4	6	230/400	1.0/1.3
ZB-DP-4R-145	580~1400	225	1420	270	Φ125	123×4	6	230/400	2.0/2.4
ZB-DP-4R-170	750~2000	260	1595	310	Φ150	177×4	6	230/400	3.0/3.5
ZB-DP-4R-195	1350~3000	315	1890	380	Φ175	240×4	6	230/400	3.5/4.0
ZB-DP-4R-220	1650~3800	350	2100	410	Φ200	314×4	10	230/400	3.5/4.0
ZB-DP-4R-250	2100~5200	405	2395	460	Φ230	415×4	12	230/400	3.5/4.0
ZB-DP-4R-280	4500~8500	450	2760	500	Φ250	490×4	12	230/400	4.2/5.0

### 5) [Double piston four cavities backflush screen changer](#)



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