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

<table>
<thead>
<tr>
<th>Type</th>
<th>Output Kg/h</th>
<th>Size (mm)</th>
<th>Screen size</th>
<th>Heating tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZB-SP-R-100</td>
<td>50~150</td>
<td>100 700 180 180</td>
<td>Φ80 50</td>
<td>4</td>
</tr>
<tr>
<td>ZB-SP-R-120</td>
<td>100~260</td>
<td>110 730 210 210</td>
<td>Φ100 78</td>
<td>4</td>
</tr>
<tr>
<td>ZB-SP-R-145</td>
<td>200~380</td>
<td>125 800 240 240</td>
<td>Φ125 123</td>
<td>4</td>
</tr>
<tr>
<td>ZB-SP-R-170</td>
<td>290~600</td>
<td>135 860 260 260</td>
<td>Φ150 177</td>
<td>4</td>
</tr>
<tr>
<td>ZB-SP-R-195</td>
<td>400~820</td>
<td>150 960 300 300</td>
<td>Φ175 240</td>
<td>4</td>
</tr>
<tr>
<td>ZB-SP-R-220</td>
<td>600~1300</td>
<td>160 1150 330 330</td>
<td>Φ200 314</td>
<td>8</td>
</tr>
<tr>
<td>ZB-SP-R-250</td>
<td>800~2000</td>
<td>180 1250 380 380</td>
<td>Φ230 415</td>
<td>8</td>
</tr>
</tbody>
</table>

#### ZB-SP-E series single pillar double working positions screen changer:

**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.

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:

<table>
<thead>
<tr>
<th>Type</th>
<th>Output Kg/h</th>
<th>Size (mm)</th>
<th>Screen size</th>
<th>Heating tube</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L1</td>
<td>L2</td>
<td>L3</td>
<td>φ(mm)</td>
</tr>
<tr>
<td>ZB-DP-2R-80</td>
<td>30~180</td>
<td>100</td>
<td>800</td>
<td>170</td>
</tr>
<tr>
<td>ZB-DP-2R-100</td>
<td>80~280</td>
<td>110</td>
<td>830</td>
<td>200</td>
</tr>
<tr>
<td>ZB-DP-2R-120</td>
<td>130~380</td>
<td>125</td>
<td>850</td>
<td>220</td>
</tr>
<tr>
<td>ZB-DP-2R-145</td>
<td>300~700</td>
<td>165</td>
<td>1020</td>
<td>270</td>
</tr>
<tr>
<td>ZB-DP-2R-170</td>
<td>400~1100</td>
<td>195</td>
<td>1120</td>
<td>310</td>
</tr>
<tr>
<td>ZB-DP-2R-195</td>
<td>650~1500</td>
<td>220</td>
<td>1270</td>
<td>380</td>
</tr>
<tr>
<td>ZB-DP-2R-220</td>
<td>850~1900</td>
<td>245</td>
<td>1350</td>
<td>410</td>
</tr>
<tr>
<td>ZB-DP-2R-250</td>
<td>1100~2600</td>
<td>280</td>
<td>1500</td>
<td>460</td>
</tr>
</tbody>
</table>
b) ZB-DP-2E series double piston hydraulic screen changer with ellipse cavities:

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

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:
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:
Batte Main Products

Melt Pump Series:

★ ZB-B standard extrusion melt pump
★ ZB-C reinforced melt pump for extrusion
★ ZB-D gear pumps for pipeline
★ ZB-E pressurized melt pump
★ ZB-F melt pump for reactor
★ ZB-H high pressure extruder pump
★ ZB-K polymer discharge gear pump
★ ZB-R extrusion rubber pump

★ RS double shaft rubber gear pump
★ ZB-U spinning pump
★ ZB-W chemical metering melt pump
★ ZB-X gear metering chemical pump
★ New type melt pump
★ Melt pump spare parts
★ PID control system for extruder
★ PLC control system for extrusion line
★ PDF download

5) Double piston four cavity backflush screen changer
Screen Changer Series:
- Manual screen changer
- Slide plate screen changer
- Continuous piston screen changer
- Continuous backflush screen changer
- Automatic bell screen changer
- Pelletizer filter without wire mesh
- Screen changer spare parts
- PDF download

Loss in Weight Feeder Series:
(For granule, sheet, powder, liquid, etc.)
- Loss in weight screw feeder
- Volumetric screw feeder
- Liquid polymer feed system
- Multi-component gravimetric feeders
- Gravimetric feeder control system
- Feeding system
- PDF download