The Continuous Screen Changer allows for filtration of most all polymers without interrupting production during a screen change. The Continuous Screen Changer consists of two screen bolts with each containing a filter cavity. When a screen change is required, one of the bolts is moved out of the housing while the other remains in the operating position. The dirty screen pack is removed and replaced with a new one. The bolt is then moved back into the housing to its venting stages before resuming operation. These steps are then repeated for the other bolt. This concept allows for continuous filtration with no interruption or loss of production. PSI Continuous Screen Changers can be designed to withstand extremely high pressure applications. PSI guarantees leak-free operation up to 10,000 psi.

Features Include
- Guaranteed leak-free operation to 10,000 psi
- Breaker plate open area largest in the industry
- All parts manufactured to ISO-9002 standards
- No seals or contact parts
- Rugged design provides resilience to wear
- Minimum pressure drop
- Continuous operation means no shut down
- Process temperatures to 850° F

Benefits
- Design allows for a screen change without interrupting material flow
- Eliminates line shutdown thus increasing production
- Absence of wear surfaces allows us to provide a five year warranty against melt leaks
- Turn-key systems available
- No maintenance or seals to replace
- Filters out contaminants
- Easier access and less interference for the operator
- Quick delivery time

Applications
- Sheet
- Coating
- Pipe and profile
- Compounding
- Wire and cable
- Tubing
- Lab lines
- Textiles (fibers and nonwovens)
- EVA, hot melt adhesive and PSA
- Pelletizing (strand and underwater)
- Recycling of most all polymers
- Highly contaminated polymers
- Blown film and cast film
- Degradable materials
## Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Extruder Output (lbs/hr)</th>
<th>Screen Diameter (in)</th>
<th>Filter Area (in²)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC</td>
<td>(kg/hr)</td>
<td>(mm)</td>
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<td>100-375</td>
<td>2.30</td>
<td>58.3</td>
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<td>250-650</td>
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<td>76.3</td>
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</table>

For larger sizes and special applications contact our PSI sales office

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The PSI Polymer Systems Continuous Screen Changer is designed for the continuous filtration of thermoplastic materials. The melt flow is divided into two streams at the housing inlet and is conveyed through each of two breaker plates and screen packs. By means of an additional super plate, 92% of the screen surface is useable for filtration.

Each breaker plate and flow channel is designed to accommodate the full throughput of the extruder or upstream equipment. When a screen change is required, one screen bolt is moved out of the housing by activating the corresponding hydraulic cylinder.

The entire flow is transitioned through one screen pack. The contaminated screen pack is then replaced with a clean one, and then the screen bolt is moved back into the housing to the venting positions. After the air is removed, the bolt is moved to the operating position. This procedure is repeated with the second screen bolt.