



# Hydraulic Screen Changer (HSC)

All PSI products and components are proudly designed and manufactured in the USA



Shown: HSC-80

## Features

- Patented #7,147,744 B2 pressure activated seal
- Operating pressures to 10,000 PSI (690 Bar)
- All seal components - Alloy steel
- Breaker plate open area largest in the industry
- Rugged, tight-fitting guards
- Industry standard interface connections
- Slide Plate heater wires flex away from poly
- One or three zones of temperature control
- High temperature option to 700°F (370°C)

PSI hydraulic slide plate screen changers (HSC) correct key trouble spots in conventional screen changer design. Attention-free seal performance, heater longevity, streamlines flow areas and rugged, industrial duty design make this screen changer a true standout and exceptional value.

At the core of the HSC is a patented, expandable all-metal seal performs leak-free to 10,000 psi and offers the advantage of eliminating degradation and gels typically generated in other seal configurations. The design also extends component life by eliminating frictional wear during slide plate shift.

The HSC can optionally withstand temperatures up to 700°F (370°C), will filter highly sensitive compounds, and can be configured for one or three heat zones.

## Benefits

Leak-free, maintenance-free seal design. Patented, all-metal seal never needs replacing and automatically adjusts sealing force to changes in melt pressure

Extruder screw pull-through without screen changer removal

Streamlined flow eliminates polymer hang-ups

Close-coupled design accepts screw extensions to within 1/2" to 1/4" of the breaker plate

Many parts interchangeable with other makes

Customizable to your extrusion line

## Applications

- Sheet
- Coating
- Pipe and profile
- Compounding
- Tubing
- Lab lines
- Wire and cable
- Pelletizing (strand and underwater)
- EVA, hot melt adhesive and PSA
- Blown film and cast film
- Most polymers

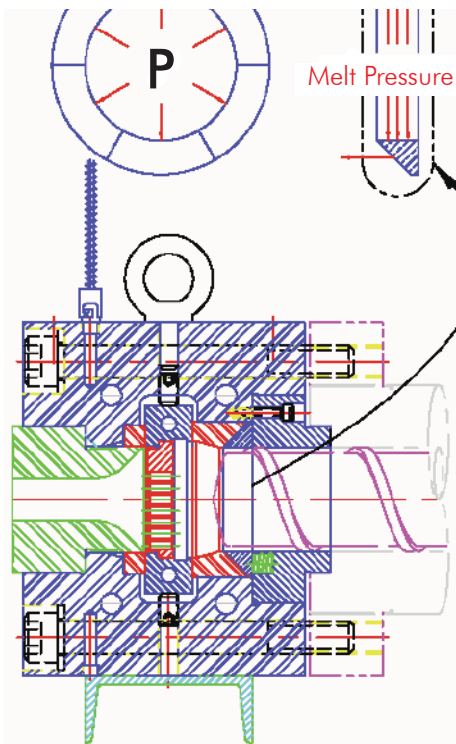
# Technical Data

Model HSC	Extruder Output (lbs/hr)   (kg/hr)	Heater KW		Screen Diameter (in)   (mm)	Screw Pull Through (in)   (mm)	Weight (lbs)   (kg)
		Body	Slideplate			
25	100-500   45-227	2.6	0.6	2.88   73.0	2.5   65	270   123
35	300-800   136-363	3.8	1.2	3.94   100.0	3.5   90	385   175
45	500-1,200   227-544	5.6	1.6	5.19   131.8	4.5   120	560   254
60	1,000-3,000   454-1,361	8.0	1.6	6.56   166.7	6   150	775   352
65	1,200-3,500   544-1,588	8.0	1.6	7.06   179.4	6.5   160	775   352
80	1,500-5,000   680-2,268	16.0	3.2	8.69   220.7	8   200	1,650   749
100	3,000-10,000   1,361-4,536	32.0	6.0	10.81   274.6	10   250	3,240   1,470
120	7,500 - 15,000   3,400-6,800	32.0	6.0	12.88   327.0	12   305	3,875   1,758

For larger sizes and special applications contact our PSI sales office

## Why Choose a PSI Hydraulic Screen Changer?

### PSI's Patented All-Metal Pressure Activated Seal



**U.S. Patent #7,147,774 B2**

### Patented All-Metal Seal

- Lifetime leak-free seal warranty
- Precision machined from high strength alloy steel
- No wear and no maintenance
- No hang up areas means no polymer degradation
- No process or temperature limitations

### Easy Connection

- HSC Models 25-65 offer convenient bolt-thru bodies for direct barrel connection. Larger sizes offer bolt circles that can be customized to mate with most existing equipment connections

### Heating

- Slide plate heater wires flex away from polymer environment
- HSC Models 25-65 offer single zone temperature control with an option for three zone control. Larger models offer three zone control as standard

### Other Features

- All metric threads for global acceptance
- Industry standard interface connections are interchangeable with other makes
- Extruder screws can be pulled through the screen changer