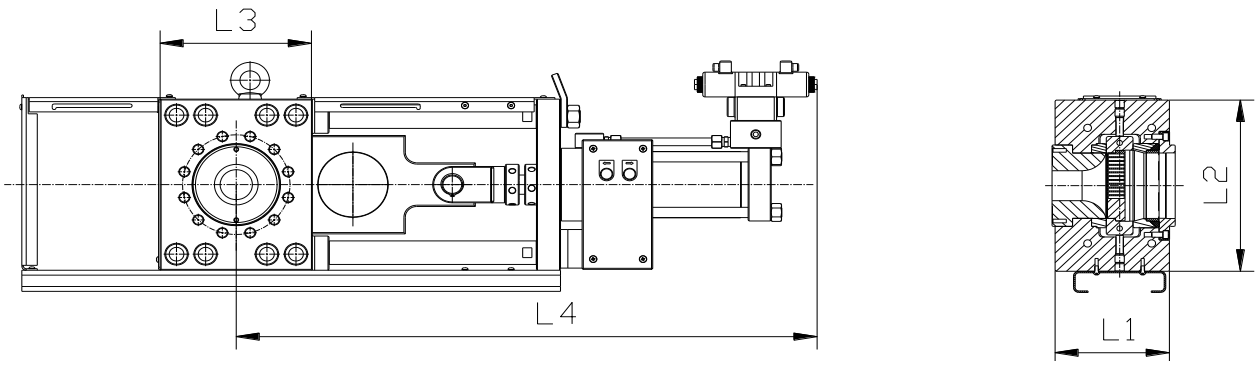
SIMCHENG Screen Changer

SIMCHENG's screen changer production line includes plate screen changer, single cylinder changer, twin cylinder changer, disc changer, cylindrical filter and no grain filter. The following shows the various types of screen changers and their technical parameters:

1. Plate Screen Changer



Technical Parameters:

Model	Standard Code	Filter Diameter [mm]	Filter Area [cm²]	Extruder Output [kg/h]	Heat Pipe Parameter			Dimensions					Weight [kg]
					Core Power [W]	Main Power [W]	Voltage [V]	L1	L2	L3	L4	L5	
SC100B	022	Φ90	63.6	60～180	1500	2400	220	184	273	220	893	1200	157
SC150B	023	Φ153	183.8	380～475	2000	3000	220	248	400	330	1260	1725	393
SC200B	024	Φ203	323.65	403～720	2500	4000	220	280	480	446	1570	2450	751
SC254B	025	Φ254	506.7	500～900	3000	4800	220	320	550	550	1950	2850	1205

Maximum pressure: 50MPa

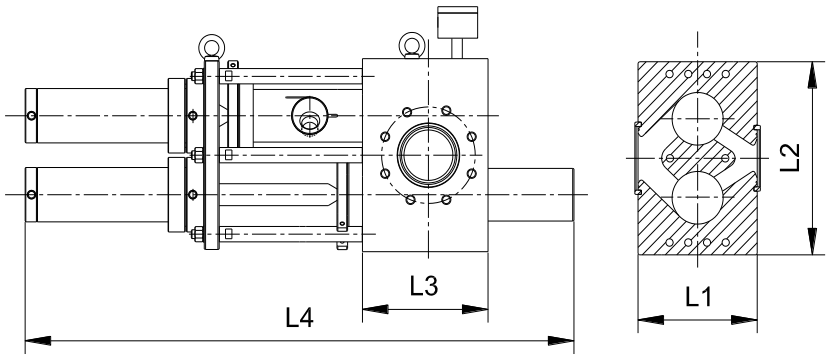
Maximum temperature: 300 ºC

Extruder output different due to specific production conditions.

Applications:
- simple structure
- stable
- used in fluid, there is a brief interruption of working conditions
- widely used in plastic resin extrusion
- used in multilayer film extrusion and recycling production

Main Features:
- this structure is driven by pressure seal technology, which represents the most advanced technology in current plate screen changer design
- simple and reliable operation
- no leak generation

2. Twin Cylinder Changer



Technical Parameters:

Model	Standard Code	Filter Diameter [mm]	Filter Area [cm²]	Extruder Output [kg/h]	Heat Pipe Parameter			Dimensions				Weight [kg]
					Core Power [W]	Main Power [W]	Voltage [V]	L1	L2	L3	L4	
SC80Y	001	Φ75	2×44.1	80～270	10	220	9000	240	410	260	1220	290
SC100Y	002	Φ85	2×56.7	110～330	10	220	10000	280	440	280	1249	440
SC125Y	003	Φ110	2×95	130～370	14	220	14000	350	580	320	1427	830
SC150Y	004	Φ145	2×165.1	360～890	14	220	15400	380	650	400	1675	1292
SC180Y	005	Φ176	2×243.3	700～1250	14	220	16800	500	760	460	1950	3600
SC100Y—L	007	76×116	2×75	130～392	10	220	10000	280	440	295	1290	490
SC125Y—L	008	100×152	2×130	160～455	14	220	14000	350	580	345	1480	890
SC150Y—L	009	139×211	2×252	494～1223	14	220	15400	383	660	465	1937	1390
SC180Y—L	010	164×249	2×350	906～1618	14	220	16800	500	760	540	2250	3826

Maximum pressure: 50MPa

Maximum temperature: 345 ºC

Extruder output different due to specific production conditions.

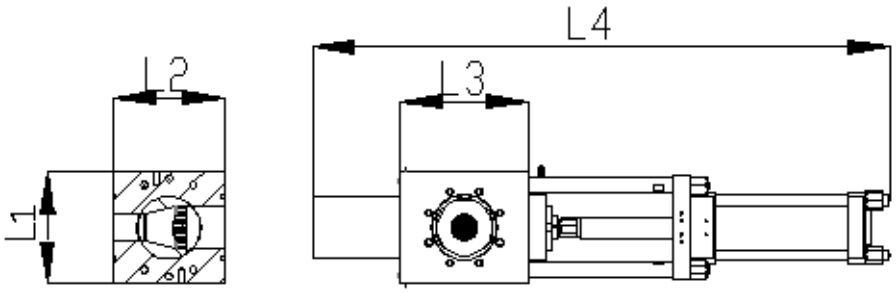
Applications: - suitable for all kinds of plastic processing
- blending production, polymeric raw material production line, recycling and other waste production

- direct extrusion, underwater pelletizing, brace pelletizing etc.
- of films, fibers/strips, profiles, sheets, pipes etc.

Main Features:
- seal-free design
- manual or automatic control
- optimized fluid flow path
- safety at work
- accurate and repeatable
- increased production, reduced downtime and waste
- reduced maintenance effort
- air can be discharged

It ensures continuous and stable material flow process.
When the polymer enters the changer, the melt will be divided equally by two rheological optimized diversion holes. Comparing this filtering method with a single shunt plate changer method, the filtration area is increased and the linear flow of the channel is ensured.
When the stream flows out of the charger it will be fused into one again.

3. Single Cylinder Changer



Technical Parameters:

Model	Standard Code	Filter Diameter [mm]	Filter Area [cm²]	Extruder Output [kg/h]	Heat Pipe Parameter			Dimensions				Weight [kg]
					Core Power [W]	Main Power [W]	Voltage [V]	L1	L2	L3	L4	
SC60DY	011	60	28.3	26.7~80	4	220	4	260	260	300	1300	254
SC65DY	012	65	33.2	31~84	4	220	4	260	260	300	1300	253
SC80DY	013	80	50.2	47~142	4	220	4	260	260	300	1300	254
SC90DY	014	90	63.6	60~180	4	220	5.2	300	300	384	1666	457
SC100DY	015	100	78.5	74~222	4	220	5.2	300	300	384	1666	456
SC110DY	016	110	94.9	89.5~269	4	220	5.2	300	300	384	1666	480
SC125DY	017	125	122.6	115~347	4	220	5.2	300	300	384	1666	480

Maximum pressure: 25MPa

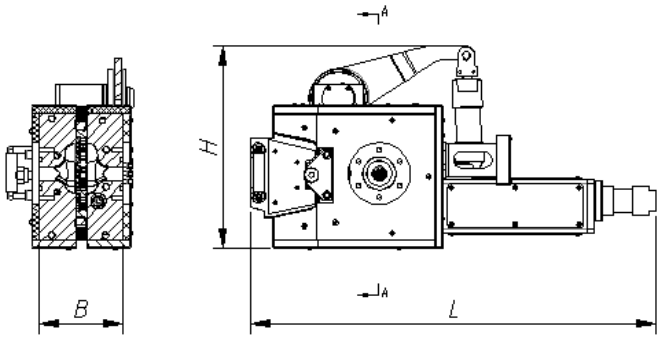
Maximum temperature: 300 ºC

Extruder output different due to specific production conditions.

Applications:
- film extrusion
- fiber production
- polymerization
- blending
- waste recycling

Main Features:
- seal-free design
- optimized fluid flow path
- short residence time of raw material
- safety at work

4. Disc Changer



Technical Parameters:

Model	Standard Code	Filter Area [cm²]	Extruder Output [kg/h]	Heat Pipe Parameter		Dimensions [mm]			Weight [kg]
				Total Power [W]	Voltage [V]	L	B	H	
YPGL82	31	82	190	9000	220	1108	230	552	315
YPGL150	32	152	349	12000	220	1060	350	600	700
YPGL354	33	354	800	20000	220	1300	400	870	910

Maximum pressure: 25MPa

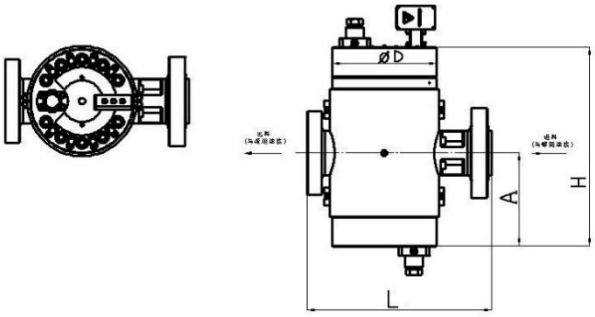
Maximum temperature: 300 ºC

Extruder output different due to specific production conditions.

Applications:
- any automatic production processes
- high quality production
- especially for PVB production

Main Features:
- automatic flushing
- constant melt pressure
- optimized melt flow channel design and sealing

5. Long Filter



Technical Parameters:

Model	Standard Code	Filter Area [cm²]	Extruder Output [kg/h]	Heat Pipe Parameter		Dimensions				Weight [kg]
				Main Power [W]	Voltage [V]	L	H	A	D	
YTGL4	027	629X4=2516		20	220	621	668	313	φ350	476
YTGL6	028	629X6=3774		21.8	220	716	690	325	Φ400	612
YTGL12	030	540X12=6480		50	380	880	1052	600	φ480	850

Maximum pressure: 30MPa

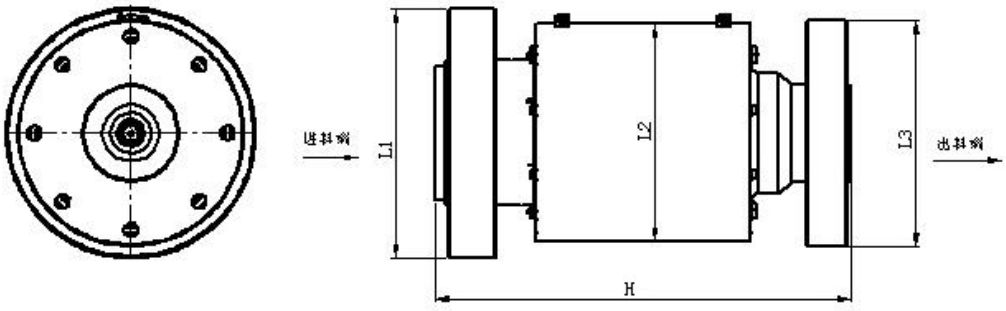
Maximum temperature: 300 ºC

Extruder output different due to specific production conditions.

Applications:
- suitable for all kinds of plastic processing
- blending production, polymeric raw material production line, recycling and other waste production
- direct extrusion, underwater pelletizing, brace pelletizing etc.
- of films, fibers/strips, profiles, sheets, pipes etc.
- used in high-volume production

Main Features:
- reduced frequency of changer
- increased filer area
- longer filter lifetime

6. No Grain Filter



Technical Parameters:

Model	Standard Code	Filter Diameter [mm]	Filter Area [m²]	Extruder Output [kg/h]	Heat Pipe Parameter		Dimensions				Weight [kg]
					Main Power [W]	Voltage [V]	L1	L2	L3	H	
DP149X10	034	149	0.029X10=0.29	80	4.8	220	240	Φ270	260	440	106
DP149X20	035	149	0.029X20=0.58	356	7.2	220	310	Φ270	280	516	138

Maximum pressure: 30MPa

Maximum temperature: 330 ºC

Extruder output different due to specific production conditions.

Applications:
- film extrusion
- currently used in the production of PR and PET

Main Features:
- line filtration of high viscosity polymers
- can effectively remove hard and gel pollutants
- reusable and cleanable filter
- for PET cast film production, it can effectively eliminate crystal point impurities