

# Super Screen

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Yunda Super Screen is designed from three-dimensional simulation and fluid analysis technology, which finally provides high stickies removal efficiency, big throughput, high reliability and energy saving.



## Advantages

- Designed on basis of hydrodynamics theory, lower motor power, more energy saving.
- Optimized rotor and screen basket design makes fiber sufficiently fluidized thus higher screening efficiency.
- Module design, stable and reliable structure, saving labor and time for installation and maintenance.
- Equipped with automatic oiling device and mechanical sealing water flow detection device, DCS interface reserved (detection of temperature rise and vibration of bearing), high degree of automation.

## Structure And Principle



- **Screening Technology**

Operation of pressure screen is based on principle of discharging contaminants through screen, including actual separation and possible separation. Actual separation means the contaminants cannot pass the holes on screen basket irrespective of the orientation of contaminants. The smaller the holes are, the higher actual separation ability of screen. Possible separation means separating by

preventing the contaminants to pass the holes by a certain moving orientation of contaminants. Influence factors are discharge rate, consistency, pressure drop, design, temperature and PH value of pulp, rotating parts design, screen basket structure and position of rotor, etc.

- **Function of screen basket/rotor**



When pulp enters basket from bottom of equipment, a rotor with foils contacts the pulp. The rotor has two functions: firstly, vortex formed by rotor produces mixing effect and forms turbulence on surface of

basket; secondly, negative pulse occurs from rotor foils. The turbulence and suction force prevent screen holes from being blocked. Accepted stock will be discharged out from the basket while reject stock and contaminants will be discharged from top of pressure screen. Big and heavy contaminants will be discharged through heavy reject pipe on bottom of screen. Heavy reject pipe should be checked regularly.

## Technical Data

Model	SS10	SS20	SS30	SS35	SS40	SS45
Inlet Dia. (mm)	150	200	250	300	300	400
Accept Dia. (mm)	150	200	250	300	300	400
Heavy Reject Dia. (mm)	80	100	100	125	125	150
Light Reject Dia. (mm)	80	100	100	125	125	250
Dilution Dia. (mm)	40	50	50	65	65	65
Nomonal Area (m <sup>2</sup> )	0.38	0.62	1.07	1.51	1.80	2.36
Capacity (T/D)	40-120	80-220	120-330	180-450	210-560	270-620
Max. Motor (KW)	11-22	15-37	37-45	37-55	45-75	45-90

Model	SS50	SS55	SS60
Inlet Dia. (mm)	400	400	400
Accept Dia. (mm)	400	400	400
Heavy Reject Dia. (mm)	150	200	200
Light Reject Dia. (mm)	250	250	250
Dilution Dia. (mm)	65	80	80
Nomonal Area (m <sup>2</sup> )	2.80	3.39	3.96
Capacity (T/D)	330-870	390-930	450-1100
Max. Motor (KW)	55-110	75-132	90-160

## Case

2017 Xinjiang Dongshengxiang Paper Industry.

200,000 tons OCC slurry line coarse screen, grading screen, fine screen, SS series screen.

