

Centrifugal Sifter CS 150V / 300V



PMS CENTI SIFTER® is an innovative mechanical screening which offers high efficiency and throughput in various bulk solid processing for non-abrasive and non-friable materials. Its functions can be categorized into Scalping, Policing, Separation, Classification, De-agglomerating and Conditioning. The sifters are widely used in pharmaceutical, chemical, food, agricultural, plastic, chemical and agricultural industries.

Theory of Operation:

During the operation, material is fed by gravity into feed screw, which conveys it to the cylindrical sifting chamber. As it enters the sifting chamber, rotating blades continuously propel the material and accelerate the movement of the material against the screen, ensuring a gentle but efficient sifting action. By its nature, centrifugal sifter provides excellent material distribution over the screen periphery, allowing a small area of screen to handle very high material load. The paddles also function to breakup soft agglomerate.

The desired-size particles passed through the screen are collected at the main discharge port. Meanwhile, particles larger than the screen aperture gradually progress along the axis of the screen and are expelled through oversize outlet spout.

All contact parts are made of stainless steel SUS 304, mirror finish. The motor bearings and mechanical parts are located outside the process area, avoiding contact with the product. Secured inlet and outlet ports ensure dust tight operation. Several options are also available upon specific request.

Application:

- Pharmaceutical Granule and Powder: Aspirin, Laxatives, Vitamin Powder, Paracetamol, Analgesics
- Food and Dairy: Confectionary powder, Starch, Flour, Baking Powder, Salt, Sugar, Milk Powder, Lactose, Dextrose, Spices, Yeast, Ground Coffee, Non-dairy Cream, Chocolate powder,
- Agricultural: Animal Feed, Fertilizer, Pesticides
- Plastic: Resin, Compound, Additive, PVC, PTFE powder
- Chemical and Mineral: Detergent, Titanium Dioxide, Talc, Zinc Oxide, Silica Oxide Powder, Calcium Carbonate, Gypsum, Paint Powder, Rubber Powder, Pigments, Epoxy Powder, Alginate

Benefit:

- cGMP Compliance
- Highly Efficient and Productive
- Space Saving
- Vibration-free and Low Noise
- Dust Tight
- Easy Cleaning
- Low Maintenance

Technical Data:

			CS 150 V	CS 300 V
Capacity*		KG/H	200 - 500	500 - 1,500
Overall Dimension*	W	MM	595	532
	L	MM	1,29	1,73
	H	MM	1,09	1,16
Effective Screening Area		SQ.M.	0.21	0.58
Driving Unit		KW	1.5	2.2
Adjustable Speed		RPM	0 - 1,000	0-450