

Plough Shear Mixer (PSM)

Efficient and Thorough Mixing

Versatility in Handling Different Materials

Short Mixing Time

Consistent and Uniform Product Quality

Energy-Efficient Design

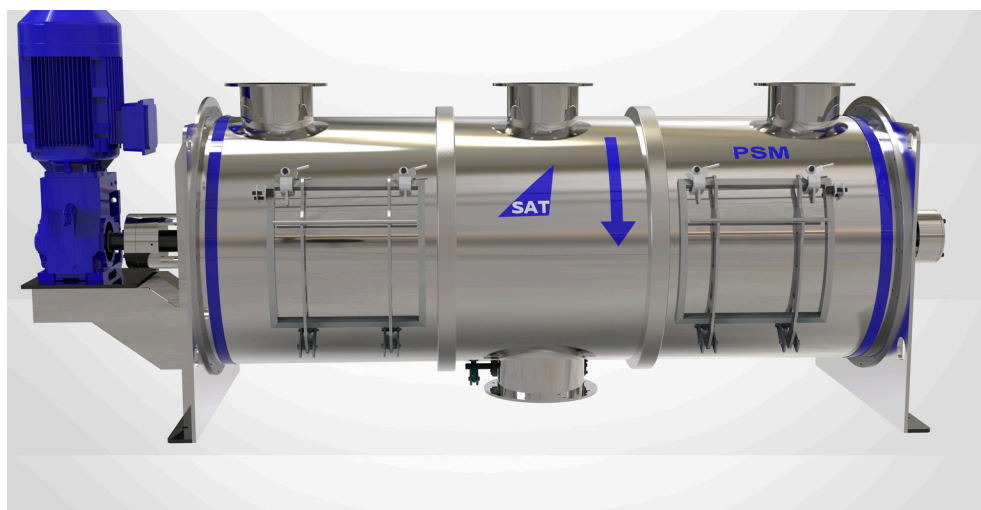
Higher Mix Blend Ratio

Applications

- Solid Solid Mixing
- Blending
- Granulation
- Multiple Phase
- Reactions
- Drying
- Quick and homogeneous mixing of powders, powder+ liquid, pastes
- Bulk Powder in dry / dry solids, dry / wet paste, and wet-wet mass

Advantages

- Fully automatic system to ensure smooth and easy operation
- Sterile construction of equipment to maintain high hygiene level
- Optimal space requirement
- Complete sanitary design with CIP system
- Custom built to suit customer requirements
- Alternative trough shapes are available to suit specific application requirements



Solutions For :

- Food & Beverages
- FMCG
- Pharmaceutical
- Petrochemicals
- Chemicals & Specialty Chemical
- Foundries
- Ceramics
- Paints & Pigments and many more

Design :

Plough shear mixer is a horizontal mixer with a cylindrical drum and a horizontally installed mixing shaft. Plough shape shovels mounted on a central shaft with sharp ends easily penetrate through the dense powder and thick pasty mass. Extra shear can be attained by adding side-mounted choppers

SAT Plough Shear Mixer is designed for heavy-duty blending of both dry and wet materials. Plough shape shovels mounted on a central shaft with pointed ends are easily penetrable through the dense powder, pasty mass. The overlapping of shovels coupled with their shape and the high speed of the ploughs produces good mixing action and high turbulence

Capacity & Specification Table :

Model	Total Vol (Liter)	Useful Vol (Liter)	Power (kW) PTP	Speed rpm for PTP	L1 (mm)	L (mm)	W (mm)	H1 (mm)	H (mm)
SAT-PSM - 45	45	30	0.55	69	480	900	550	450	950
SAT-PSM - 70	70	45	0.75	69	580	1050	600	450	970
SAT-PSM - 100	100	70	1.1	60	660	1100	610	450	1020
SAT-PSM - 200	200	140	1.5	53	890	1400	730	500	1180
SAT-PSM - 300	300	210	2.2	51	970	1550	850	500	1300
SAT-PSM - 500	500	350	4	45	1250	2000	950	500	1400
SAT-PSM - 750	750	500	5.5	45	1500	2250	1100	600	1600
SAT-PSM - 1000	1000	700	7.5	33	1900	2600	1150	600	1800
SAT-PSM - 1500	1500	1000	11	28	2110	3200	1250	600	2000
SAT-PSM - 2000	2000	1400	15	25	2100	3500	1350	600	2200
SAT-PSM - 3000	3000	2100	22	23	3000	4100	1500	800	2400
SAT-PSM - 4000	4000	2800	30	17	3000	4200	1550	800	2600
SAT-PSM - 5000	5000	3500	37	17	3000	4300	1620	800	2800

Note: kW, rpm, discharge clearance are changeable according to the customer's request
All specifications and illustrations are as accurate as is reasonably possible, but they are not binding
SAT India reserves the right to modify the design without notice

Technical Data :

- Available in Stainless Steel and all grades of Carbon Steel
- Nord / SEW geared motor

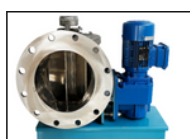
Optional Accessories :

- ATEX compliant versions available on request
- Heating / cooling jacket available on request

Other Products :



STORAGE SILOS



ROTARY AIR LOCK VALVE



DELUMPERS



VERTICAL MIXER



BAG EMPTYING SYSTEM