

COMPANY PROFILE

S. S. ENGINEERING is in the field of Manufacturing & Exporting of Chemical Processing equipments for the past three decades providing innovative & cost effective solutions to the Machinery & Equipment needs of various industries viz.

- **BULK DRUGS**
- **PLASTICS**
- **FOOD PROCESSING**
- **POLYMERS**
- **CHEMICALS**
- **ADHESIVES & COATINGS**



Our product range includes

- **REACTION VESSEL (JACKETED & LIMPET)**
- **HEAT EXCHANGERS (CONDENSOR)**
- **STORAGE TANKS**
- **MIXERS**
- **BLENDERS**
- **FILTERS**
- **EVAPORATORS**
- **DRYERS (DRUM DRYERS)**
- **CENTRIFUGES (HYDRO EXTRACTOR)**
- **DISTILLATION PLANTS**
- **DISTEMPER PAINT PLANT**

We undertake turnkey project for

BULK DRUG PLANT, POLYESTER RESIN PLANT, PHENOL FORMALDEHYDE RESIN PLANT, DISTEMPER PAINT PLANT, CATIONIC BITUMEN EMULSION PLANT, PVA/ALKYD RESIN PLANT

We also undertake development of various equipments as per Customers drawings, design and or Specifications.

We have full fledged production set-up comprising of Pyramid type Plate & Pipe Bending machines, Coil forming Hydraulic Press, Center Lathes, Drill, Air Plasma, TIG/MIG Welding Rectifiers, Hydraulic Testing Machine etc.

We have good teams of qualified production personnel comprising of qualified X-ray welders, fitters, engineers, working under quality conscious skilled supervisor.

We assure timely execution of work entrusted to us maintaining optimum quality of workmanship giving reliable and trouble free performance of the Machines manufactured by us.

PLOUGH SHEAR MIXER

S.S Engineering plough Shear Mixer has a horizontal cylindrical shape with flat end plates. The main shaft passes through the axis of the vessel and is supported at the end plates in specially designed bearing housing. The plough shaped mixing elements are arranged concentrically on the main shaft. The clearance between the ploughs and shell wall is minimum, to facilitate better mixing.

APPLICATION

- CHEMICALS
- MINERALS
- FOOD
- BREAK LINING AND INDUSTRIAL GASKETS
- GLASS INDUSTRIES
- ANIMAL FEED
- FIRE EXTINGUISHING POWDER
- FERTILIZERS
- DYES AND INTERMEDIATES



WORKING PRINCIPLE

The Mixer consists of a cylindrical shell, fitted with series of ploughs rotated on the central shaft which incorporates ploughing motion. This pattern results in collisions and blending of both dry and wet materials. Plough Shear Mixer is long term operation for various applications like mixing, grinding, dispersion etc.

Multiple Choppers are fitted on the mixing vessel between ploughs. Choppers can be with multiple blades or simple depending on the applications.. They prevent lump formation and better mixing. For controlling the mixing, the Chopper motor can be switched on and of independently.



NOZZLES

Generally a feed inlet nozzle is provided at the top of the mixer with quick opening lid Rotary valve, Butterfly valve etc. can be provided depending on application. Discharge nozzle is provided at the bottom of shell for discharging wet or dry material. Operation of Discharge door shall be operated manually. This can be pneumatic or hydraulic depending on application. Besides this one or more Flat type Inspection doors can be fixed, on the front side of the mixer.

Jacket

Blender can be designed with jacket or without jacket for heating or cooling application.

Vacuum/Pressure

The Equipment can be designed for pressure and vacuum application where in solid/Liquid/gas phase reaction can be carried out.

Drive

Fluid Coupling is fitted in between motor and gear box to prevent shock loading on gear box, prevents the drawing of large current by the motor and damage to the drive elements due to frequent starting and stopping of motor.

CONTROL PANEL

On off switching for plough and chopper. Ammeter, Voltmeter, Temperature indicator, Pressure indicator, Audio Visual Alarm are housed in the Panel.

TYPES OF PLOUGHS & CHOPPERS



PLOUGH



MULTIPLE CHOPPER



SERRATED PLOUGH



CHOPPER

TECHNICAL DATA

MODEL	WORKING CAPACITY	HP (Plough Shear)	HP (Chopper)
SSP 100	25 - 80	3 HP	1 HP x 1 HP
SSP 200	60 - 200	5 HP	2 HP X 2 HP
SSP 300	130 - 300	10 HP	3 HP X 3 HP
SSP 500	160 - 500	15 HP	5 HP X 5 HP
SSP 700	250 - 700	20 HP	5 HP X 5 HP
SSP 1000	400 - 1000	25 HP	7.5 HP x 7.5 HP
SSP 1500	500 - 1500	40 HP	7.5 HP x 7.5 HP