



- **SCREENING**
- **GRINDING**
- **MIXING**
- **CRUSHING**
- **GRANULATION**
- **CONVEYING**
- **TURNKEY PROJECTS**



ABOUT US

We, Finex Sieves Pvt. Ltd. are designers and manufacturers of customized powder processing machineries and turnkey projects. We have expertise in developing solutions for applications such as Screening, Grinding, Mixing, Crushing, Granulation and Material Handling Systems.

Finex Sieves offers a wide range of standard and custom designed powder processing equipments with capacities ranging from 50 kg per hour to 50 tons per hour.

We focus to develop innovative solutions and customize machinery to meet your application needs. We value the growth of our customers and hence stress to develop high quality machines at a low cost with reduced power consumption and minimum running maintenance cost. We take the responsibility of correctly installing and efficiently commissioning the system at the customer's site, ensuring total customer satisfaction.



INDUSTRIES CATERED



Spices, Condiments & Seasonings



Flour & Bakery



Dairy



Confectionery



Pharmaceutical & Nutraceutical



Chemicals



Herbal Drugs



Corn Starch



Guar Gum



Fertilizers & Pesticides



Plastic & Polymers



Petrochemical



Carbon Black & Rubber



Detergent



Paints And Pigments



Glass

- All pulverizers can be offered in SS 316, SS 304 or carbon steel and the rotating parts such as pins, beaters and hammers can be offered in high strength alloys such as 17-4 PH, Nitronic 50 and EN-31.
- Water jacketing on grinding chamber & bearing housing can be provided for grinding of heat-sensitive materials.
- Fineness of the output product depends on the application and hardness of the material handled.

PIN MILL (MICRO PULVERIZER)



- Recommended for medium to fine grinding of soft to semi hard and heat-sensitive materials.
- Low heat operation ideal for heat sensitive material retaining vital properties such as its chemistry, color, taste, flavor, etc.
- Multiple grinding (pin and micro) attachment provides pulverizing versatility.
- Cryogenic grinding using liquid nitrogen can be provided.
- Capacity Range: 100 kgs/ hour to 4 tons/ hour
- Maximum Permissible Feed size: 5 mm
- Fineness range: 30 to 150 mesh (BSS)

IMPACT MILL (AIR SWEEP MILL)



- Screenless pulverizer recommended for micro fine pulverizing of soft to medium hard, fibrous and slightly moist materials.
- Capacity Range: 50 kgs/ hour to 2 tons / hour depending on application.
- Maximum Permissible Feed Size: 10-15 mm
- Fineness range: 150 to 400 mesh (BSS)
- Dust free operation using negative air pressure design (blower, cyclone and dust collector system).

ULTRAFINE MILL



- Screenless pulverizer precisely built for grinding of soft to medium hard materials into extremely fine powder.
- Capacity: 50 kgs/hour to 500 kgs/hour
- Maximum Permissible Feed Size: 6-10 mm
- Fineness range: 200 to 400 mesh (BSS)
- Ideal for fine grinding of sugar, pharmaceutical API and excipients.

HAMMER MILL



- Used for disintegration, coarse grinding and wet crushing of hard materials.
- Combination of different hammer styles, liner plates and screens provide grinding versatility.
- Capacity range: 50 kgs/hour to 7.5 tons/hour
- Maximum Permissible Feed Size: 30-50 mm
- Fineness range: 4 to 60 mesh (BSS)

- Customized mesh option available. Brass sieves available for explosive materials.
- All equipments can be offered in SS 316, SS 304 and carbon steel with the option of non-metallic coating such as Teflon, PU, FRP for explosive materials.
- Easy to operate, low maintenance and no tools required for assembling or dismantling.

ROTARY SIFTER



- Highly effective for sifting, scalping and de-agglomeration of powders and granular material.
- Closed system providing dust free operation.
- Gravity feed or inline.
- Options for mesh de-blinding: Nylon Brushes, Teflon wipers or Air Purging.
- Higher throughput per unit mesh area upto 70% more than Vibro sifter.
- Wedge wire screen can be provided.
- Available with Clean-in-place (CIP) systems.



Nylon Mesh Perforated Screen Wedge Wire Wire Mesh



BEFORE CIP



AFTER CIP

VIBRO SIFTER



- Provides up to 5 separations in a single operation.
- Quick clamping mechanism for mesh changing.
- Enhance screening efficiency using screen de-blinding systems like Maximizer Deck, Ball Tray arrangement, Rotary Brush system and Ultrasonic system.
- Capacity Range: 50 kgs /hour to 1 ton /hour depending on the mesh selected and application handled.
- Ultrasonic attachment which can be retrofitted on any new or existing vibratory sifter transmits ultrasonic waves on the screen thereby de-deblinding the screen increasing the screening efficiency.



BALL TRAY SYSTEM



INLINE VIBRO SIFTER



ULTRASONIC OFF



ULTRASONIC ON

ULTRASONIC DE-BLINDING SYSTEM

LINEAR VIBRATORY SIFTER



- Provides up to 5 separations in a single operation.
- Large screening area providing higher screening capacity ranging from 100 kgs /hour to 20 tons /hour.
- Enclosed, dust free operation to eliminate airborne dust.
- Air purging arrangement can be provided for screen de-blinding.
- Aspirator system with exhaust blower can be attached for removing light impurities and dust generated during feeding.
- Screen mesh size: 2 to 20 mesh

TUMBLING MACHINE



- Screening process that goes gentle on the material being screened.
- High grading accuracy of up to 99%.
- Throughput of up to 5 tons/hour depending on the application and mesh size.
- Up to 5 decks and 6 particle size ranges.
- Tumbling motion can be adjusted in a continuously variable manner.

ROTARY DRUM SIFTER



- Both rotating basket and impeller with brushes for higher screening throughput.
- Capacity: 500 kgs/hour to 5 tons/hour
- Air purging system can be provided for higher screening efficiency.
- Ideal for bulk screening of powders such as starch, graphite, etc.
- Screen mesh size: 40 to 150 mesh

BAG DUMPING STATION



- It is combination of screening system with an unloading unit, assembled with a Dust Collection system at the top to filter the fine dust generated during feeding operation.
- Reduces potential for dust explosions
- Fits well upstream of feeding system or packing system.

LUMP CRUSHER



- Used to reduce high volumes of hard or soft, heat sensitive, sticky or wet agglomerates and lumps.
- Inline totally enclosed dust proof design.
- Individual Replaceable Jaws.
- Continuous operation with lump size upto 200 mm reduced to less than 3 mm.
- Unique air purging sealing arrangement restricting powder to come in contact with the bearings.
- Capacity: 100 kgs/hour to 100 tons/hour.
- Application: Crushing of petrochemical products such as PTA and PVC lumps.

LUMP BREAKER



- Used for wet crushing of solid laden slurries consisting of 50-70% moisture.
- Maximum Permissible Infeed Size: 25 mm
- Fineness: Less than 1 mm
- Capacity: 50 m³ to 500 m³ per hour
- Excellent for size reduction of lumps to original particle size without grinding.
- Application: Crushing of petrochemical products such as PTA and PVC lumps.

GRANULATION / PELLETIZING EQUIPMENT

PIN MIXER



- It is a high-speed mixer that conditions and micro-pelletizes by converting the fine powders into small agglomerates through the action of a high-speed rotor shaft with helical pin assembly in a machined stationary casing and the addition of liquids such as water, binders, oil or surfactants.
- Suited for micro-pelletizing, agglomerating, or conditioning powdered materials, such as carbon black, tire char, cement kiln dust, manure, pesticides, limestone fines, graphite, bauxite and silica fume for further processing in a pelletizer.
- Pellet size: 0.5-5mm pellet size with 95% pelletizing efficiency
- Capacity: 500 kgs/hour to 5 tons/hour

- All mixers can be offered in SS 316, SS 304 or carbon steel as specified.
- Spraying nozzles available for liquid addition.
- Water jacketing for heating or cooling can be provided.
- Outboard bearings and stuffing box for eliminating product contamination.
- All mixers can be provided with manual discharge system, hydraulic or pneumatic operated gate valve.
- Air purge seal and packing seal for the main shaft seal results in low maintenance & long service life.
- Capacity: 50 kgs to 5 tons per batch.

TWIN SHAFT PADDLE MIXER



- Ideal for homogenous blending of materials of dissimilar size, shape and bulk density.
- Ideal for Solid-liquid Mixing.
- Extremely short mixing time (5 to 15 mins per batch)
- Tight clearance between paddles and outer shell provides efficient clean-out at the end of each batch avoiding product accumulation.

RIBBON BLENDER



- Ideal for dry mixing of powders and granular ingredients with like size, shape and bulk densities.
- In addition to mixing, shearing action provides mild kneading which is useful for blending friable or oversized ingredients.
- Ribbon agitators are most commonly used in the food industry where bulk products are repeatedly blended.

PLOUGH SHEAR MIXER



- Ideal for high speed mixing of sticky and hygroscopic materials that tend to agglomerate.
- High speed choppers contribute to breaking the lumps and hence provides uniform mixing.
- High accuracy mixing with short batch mixing time.
- The minimal gap between plough shear and vessel ensures mixing efficiency and minimal dead spots as well as residue.

MATERIAL HANDLING SYSTEMS



SCREW CONVEYOR



BELT CONVEYOR



ROTARY AIRLOCK VALVE



VIBRATORY FEEDER



ABC FIRE POWDER MFG. PLANT



CRYOGENIC GRINDING PLANT

▶ SPICE CLEANING PLANT

▶ FERTILIZER MFG. PLANT

▶ DUST COLLECTION SYSTEM

▶ LOW TEMPERATURE DRYING PLANT

LIST OF CLIENTS

PHARMA								
FOOD								
CHEMICAL								
PETROCHEMICAL								