



FINEX SIEVES PVT.LTD.

FINEX SIEVES PVT LTD India's Leading Designer and Manufacturer of Powder Processing Machineries for Grinding, Screening, Mixing, Drying, Crushing, Cleaning, Pelet Making and Material Handling Equipment's and Plants. Established in the year 1981 we are one of the leaders in Designing and Manufacturing of Powder Processing Machineries providing Innovative, Customized products for the process Industries. We supply all over the world with over 2500 successful Installations and are located in Vadodara, Gujarat India's Largest Engineering Industrial Estate. We are having a Land Area of 27,000 sq ft with a built up Area of over 10,000 sq ft.

We also have Demo Machines both in Stainless steel and Mild steel for all the models that we mfg and we offer trials and undertake development work for new application.

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Finex Sieves Pvt Ltd introduces the Tumbling Non Vibrating Shaking motion Separator Grader for solid solid powder separation . This is The simplest screening hand screening by eye. This is mechanically simulated by the Tumbler Screening Machine.

The basic motion is gyratory with the horizontally motion being similar to a plant sifter. The eccentricity can vary from slow speed V-belt drive allows variable speeds

The residence time of each product can be adjusted by the assembly in a radial and tangential angle, towards the drive axis.

A three-dimensional tumbling motion, which is a mixture of plane and throw, is created. The screening material is uniformly distributed over the entire surface from the center to the periphery. It will travel in a spiral transport direction. in the center, the finer particles will pass through the mesh holes.

Towards the outside, the horizontal and vertical acceleration is increasing, causing the particles with near mesh size to be separated. The remaining oversize is being carried to the outlet where the flow is also controlled by an adjustable deflector, This deflector is another factor in controlling the residence time of a material on the screen. this process is repeated on every screen deck.

Anti-blinding Devices

When fine screening is done, the screen meshes can become blinded by particles, dust or by static charges. This greatly reduces the capacity and the screening efficiency. For a continuous operation, it is necessary to have an appropriate anti-blinding system for the materials being screened. The circular design, with its central main shaft and three-dimensional motion, enables Tumbler Screening Machines to utilize different anti-blinding systems.

1-Ball Cleaning, Bouncing balls keep the screen free from blinding,

2-Roller Brush Cleaning - Roller brushes are rotating under the screen and are used for spherical, crystalline and fragile materials. The brush arms are driven by a reduction gear mounted in the bottom Below screen .

3- Air-Jet Cleaning - A blower carries air or gas into the central air bell where it is distributed into the air-jet arms cleaning the screen from underneath. A fluid bed like effect is created by the air-jet causing fine and coarse material to disperse.

- Screening efficiency up to 99%
- No particle destruction of sensitive products
- High screening quality results in higher revenues for graded products
- Higher specific screen load as compared to vibration systems
- Stable screen motion even under full load
- Tumbling movement indefinitely adjustable, resulting in precise control of residence time on the screen, capacity and screening efficiency can be coordinated and optimized With Quick access to the screen inserts
- Modular design permits various machine modifications
- Dust tight, gas tight as option
- Excellent for trouble free screening of powders from 20 mesh to 400 mesh 30 microns.

Applications are

- Chemicals / pharmaceutical
- Foodstuff / Cosmetics
- Plastics / Metallurgy /Metal powders
- Stones and ores /Minerals
- Wood flour, Recycling
- Available in Circular Designs from 600mm dia to 2400mm Dia (8 feet) in Mild steel,Stainlesssteel,GMP Pharma Finish.

SALIENT FEATURES TUMBLING GRADER is NON VIBRATING BUT IS SHAKING MOTION

- 1) Low Frequency Shaking movement (180 rpm)by Pulley Drive Gives Long Screen Life/ Low Maintenance as less Wear and Tear
- 2) Three Dimensional Oscillation Horizontal Gyratory movement superimposed by a Vertical motion resulting in TUMBLING MOTION
- 3) Combined Effect gives spiral movement of bulk material on the screen
- 4) Gentle movement provides extremely delicate material screening without screen BLOCKING
- 5) Bottom Brush Drive keeps Screen Clean from Blinding
- 6) Ordinary Crompton / standard make 3HP TEFC 1440RPM Motor Flange Mounted Repairs locally possible and Replacable motor easily available
- 7) Rubber suspension ensures maximum Vibrations to top Screen
- 8) Odd shaped ,Rough particles like quartz, silica sand, fedspar damage screen very fast due to Abrasive nature of material due to Gentle Tumbling Motion and Low Frequency Screen is not damaged Screen Life Very Long

VIBROSCREEN ALTERNATE DESIGN IS VIBRATING AT HIGH Frequency

- 1) High Frequency Vibratory movement (1440 rpm)by Vibrator Motor Gives Short Screen Life/ Low Maintenance as High More Wear and Tear
- 2) Two Dimensional Gyratory motion that is Vertical and Horizontal Vibrations
- 3) Rough movement due to excessive Vibrations gets material screen Blinding and damaged with screen BLOCKING very fast
- 4) Vibrator Motor 1440RPM Special Design can only be repaired by Manufacturer, if motor is damaged during repair period production is stopped

- 5) Spring suspension distributes Vibrations to top and Bottom Base.
- 6) Odd shaped ,Rough particles like quartz, silica sand, fedspar damage screen very fast due to Abrasive nature of material with High Frequency Motion of Vibrations Screen is damaged Soon.
- 7) No Brush Drive and Vibratory vertical motion makes screen get blinded fast.

CONTACT :-

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POWDER PROCESSING PRODUCT RANGE OF FINEX EQUIPMENTS & PLANTS

<p><u>GRINDING EQUIPMENTS</u> Hammer Mill Pin Mill Micro Mill Plastic Grinding Mills Ultra Fine Mills Air Swept Mills</p>	<p><u>CRUSHING</u> Lump Crushers Lump Breakers Inline Crushers</p>
<p><u>SCREENING EQUIPMENTS</u> Gyratory Separators Vibratory Graders Rotary Sifters Rotary Drum Sifters Cleaning Graders Air Aspirators Destoners Air Classifiers</p>	<p><u>MATERIAL HANDLING SYSTEMS</u> Screw Conveyors Vibratory Feeders Bucket & Belt Conveyors PJ Dust Collectors Rotary Airlock Valves Pneumatic Conveying Systems</p>
<p><u>DRYERS & ROASTERS</u> Pneumatic Dryers Flash Dryers Roasters <u>Continuous</u> FLUID BED PNEUMATIC DRYING PLANTS</p>	<p><u>TURNKEY PLANTS</u> Salt Refinery Spice Plant Air Classification Plants</p> <p><u>BLENDERS & MIXERS</u> Ribbon Blenders Paddle Blenders Drum Mixers</p>

APPLICATIONS

CHEMICLAS	PHARMACEUTICALS	COSMETIC	PLASTICS
Fillers	Insecticides	Detergent	Pigment
Resins	Spices	Ceramics	Fillers
Cement	Food Flour Powder	Lime	Mineral

TUMBLING 24"



TUMBLING 24"



TUMBLING 24"



FINEX-TUMBLING 36" DOUBLE DECK



TUMBLING 48"



TUMBLING 48"



TUMBLING 48"



TUMBLING 48"



TUMBLING 60"



TUMBLING 60"



TUMBLING 72"



TUMBLING 72"



A unique name for manufacturing machines for Grinding , Screening , Mixing , Drying , Material Handling , Equipments & Plants.

➔ **SCREENING MODELS :-**

➔ **TECHNICAL DATA :-**

MODEL NO.	DIMENSION (Ø D)	MOTOR (H.P.)
FTB-22"	600	02
FTB-36"	900	03
FTB-48"	1200	03
FTB-60"	1500	05
FTB-72"	1800	05

SCREENING FROM 60 TO 300 MESH



