

SIFTING / SCREENING / CLASSIFICATION

# ***Powder & Partifcles **V**ibration **S**ifter***

---



- System Integration / Design / Sales / Engineering Support / Powder Processing Service
- Nano Creating (Grinding / Dispersion / Emulsifying / Classification) Systems
- Powder & Particles Processing Equipment / Systems



**FT Associates, Inc. (FTA)**

1-23-6 Higashi-Fujisawa, Iruma, Saitama 358-0012 Japan  
Phone : +81-(0)4-2997-8070  
Fax : +81-(0)4-2997-8079  
E-mail : [sales@ftajapan.com](mailto:sales@ftajapan.com)  
URL : <http://www.ftajapan.com>



**APPLICATIONS :**

**FEATURES :**

- Various choice for the material is available
- Outlet position is adjustable
- No installation work is requested
- Both dry and wet operation is acceptable
- Easy screen change is realized
- Less mesh blocking by using ultra sonic vibration
- Separating motion is selectable
- Powder dust can be shut off
- Wide range selection is available for applications, or propose
- Optional attachment is available

Synthetic resins (pellet, beads, powder), Paints, Cosmetics, Dyestuffs (powder, liquid), Medical supplies industrial medicines (granule, powder), Soap (powder, liquid), Wood powder, Nitrate (powder), Magnesium (powder), Rubber filler (powder), Graphite (powder), Silica (powder), Silica sand (granule), Abrasive (granule), Ceramic (powder, liquid), Ferrite (powder), Glass powder, Wheat for mill , Soya bean, Corn (granule, powder), Wheat starch, Corn starch (liquid, powder), Feed corn (granule), Fish meal for feed (bit powder), Granulated sugar for refining (square shaped), Condiments (powder, liquid), Bean-Curd (liquid), Tomato sauce (liquid), Spice (powder), Yeast (liquid), Bean jam (paste), Dairy products (powder), Fruit, Vegetable (liquid), Citric acid (powder), Waste liquid from processing of fishery, Waste liquid from silica sand, Waste liquid from pulp, Waste liquid from metal working, Waste liquid from making bean-curd and foods, Iron, Copper and other metals (powder, granule), Aluminum foil (speck, liquid), Materials for powder metallurgy (powder), Coal, Cokes (granule), Sulfur (powder), Boring filler (granule), Bone material (granule), Waste oil (liquid), Phosphor (powder), Fluorescent substance (powder), Cast dust (granule), Steel shot (granule) & Others



**STANDARD TYPE**

- \* REGARDLESS OF THE SIZE, OR SHAPE OF PARTICLES, THE SIFTING OPERATION CAN BE DONE IN BOTH WET OR DRY CONDITIONS
- \* THE THREE STAGES SCREENS CAN BE APPLIED FOR FOUR SIZES OF CLASSIFICATIONS
- \* WIDE RANGE OF SCREEN SELECTION IS OFFERED



**ULTRA-SONIC TYPE**

- \* STAINLESS STEEL, TITANIUM, AND OTHER MATERIALS CAN BE SELECTED FOR THE SIFTER BODY.
- \* SIFTERS, EQUIPPED WITH THE ULTRASONIC OSCILLATOR, ARE AVAILABLE.
- \* MICRON SIZE FILTERS ARE AVAILABLE FOR THE FINE PARTICLE SIFTING
- \* TAPPING BALL IS NOT NECESSARY.
- \* EASY SCREEN DETACHABLE TYPE IS AVAILABLE.





**MULTIPURPOSE TYPE**

- \* WIDE RANGE OF LINE UP, FROM JIS 200mm STANDARD SIFTER TO 250mm · 300mm SCREEN BOTTOM DISCHARGE TYPE, AND 400mm HORIZONTAL DISCHARGE TYPE, IS AVAILABLE.
- \* COMPACT TYPE SIFTER IS ALSO OFFERED FOR LABORATORY USE
- \* INSTALLATION OF A TIMER IS AVAILABLE FOR AUTOMATIC STOP OF ULTRASONIC OSILLATER

**BOTTOM DISCHARGE TYPE**

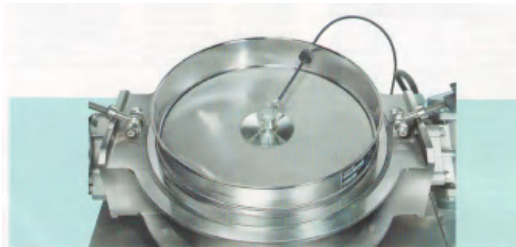


- \* COMPACT SPACE & SIMPLE DESIGN IS ACHEIVED
- \* MOTOR IS MOUNTED OUTSIDE THE BODY, AND BOTTOM DISCHARGE TYPE IS OFFERED
- \* LOW NOISE, SIMPLE STRUCTURE, AND EFFECTIVE DISCHARGE SYSTEM IS DESIGNED
- \* THE MOTOR IS EASY DITACHABLE WITHOUT THE REMOVAL OF THE SIFTING PORTION
- \* INSTALLATION CAN BE DONE IN A SMALL SPACE

### ULTRASONIC VIBRATING LABORATORY SIFTER



- \* BOTTOM DISCHARGE, WHICH DOES NOT GIVE ANY EXTRA MOVEMENT TO THE PARTICLES
- \* AUXILIARY EQUIPMENT IS NOT REQUIRED
- \* SMALL SPACE DESIGN IS APPLIED FOR EASY INSTALLATION
- \* THE STRUCTURE IS SIMPLE, WITH LESS FAILURE, AND LOW NOISE, AND EASY MAINTENANCE.
- \* IT CAN BE USED IN CHEMICAL, RESIN, CERAMICS, FOOD, METAL, & OTHER AREA



- \* Voltage: 95 ~ 135V / 195 ~ 265V (single phase) switching
- \* Power frequency: 50Hz / 60 Hz
- \* Current consumption: up to 2A
- \* Output: 100% at 30 ~ 32W
- \* Ultrasonic Frequency: 49.5KHz ~ 51.5KHz
- \* Frequency adjustment: Automatic adjustment
- \* Alarm output: 7.5mA maximum current flows during operation
- \* HF Cable: RG-58 5.5m Cable
- \* Protected format: DIN VDE 0106Part1 grounding protection
- \* Fuse: 2 x 2A
- \* Permissible ambient temperature: °C 40 best
- \* Area allowed humidity: up to 80%

**Inquiry Sheet**

Please fill your requirement / Information & return to us.

Customer	Company			Dept. Position				
	Address			Phone				
	Name			E-Mail				
Required System & Request	Category	A) Grinding B) Dispersing / Emulsifying C) Classification / Sifting D) Feeding / Transportation E) Separation / Concentration F) Drying G) Others						
	System	A) Cavitation Mill Dispersing System B) Beads Mill Ultra Fine Grinding System C) Jet Mill Ultra Fine Grinding System D) Grinding Mill Powder Pulverization System E) Super Micro Sieve F) Hydro-Cyclone Classification System G) Vibration Sifter H) Micro Powder Air Classifier I) Constant Micro Feeder J) Others						
	Request	A) Sales Material B) Proposal C) Test D) Process Service E) Rental F) Others						
Materials & Target	Name			Properties Y or N	Bulk Density		Moisture	
	Condition	A) Powder B) Particle C) Solid D) Others			Hygroscopic		% if Yes	
					Abrasiveness		Aggregation	
	Particle Shape	A) Spherical B) Unspecified C) With Protrusion D) Single Particle E) Aggregates F) Unknown		Solvent	A) Water B) Ethanol C) IPA D) MEK E) Acetone F) Toluene G) Xylene H) Ethyl Acetate I) Others			
	Size	Original Powder	Required	Slurry	Density wt%		Viscosity cps	
	D <sub>50</sub>							
	Top							
Others			Detergent					
Test & Work	Required Volume	Test sample			Production			
	Test / Work Schedule				Attendance			
Remarks								

Excel version is available at <http://www.ftajapan.com/inquiry.xls> , if required.

## ■ Major Systems & Services offered by FTA



### Grinding / Crushing / Dispersing / Emulsifying

**Dispersing / Emulsifying / Mixing** Wet Operation  
Cavitation Mill Nano Dispersing System

**Nano Grinding / Crushing / Dispersing / Mixing** Wet Operation  
Beads Mill Nano Grinding System

**Grinding / Crushing** Dry Operation  
Jet Mill Ultra Fine Grinding System

**Dispersing / Emulsifying / Mixing** Wet Operation  
Ultrasonic Processor Nano Forming System

**Grinding, Crushing** Dry Operation  
Grinding Mill Powder Pulverization System



### Classifying / Sifting

**Classification / Sifting** Dry & Wet Operation  
Super Micro Sieve & Screen

**Classification/Separation/Concentration** Wet Operation  
Hydrocyclone Classification System

**Sifting / Screening / Classifying** Dry & Wet Operation  
Powder & Particles Vibration Sifter

**Classifying** Dry Operation  
Micro Powder Air Classifier



### Other Powder Processing Systems & Services

**Concentration**  
Screw Decanter Concentration System

**Constant Feeding**  
Powder & Particles Constant Micro Feeder