For safe and reliable operation, it is essential to read the user’s manual carefully before using this equipment.

We have a new slogan in Japan: “ECOing”, a combination of “eco” and “ing”. This is to promote eco-friendly technological development and manufacturing. Our ecological activities are of course not limited to Japan and practiced in many countries around the world.
We are widely renowned as a leading manufacturer, and our history in the field goes back more than 60 years. Expertise drawn from our own R&D resources underpins the outstanding performance of equipment we have supplied in the food processing, chemicals, sanitary porcelain and new materials fields. As Japanese industrial might has expanded, we too have grown and evolved. Our many years of experience are now directed towards developing more sophisticated high frequency parts feeders for electronics applications in the IT industry.

We also have a long and successful record in the production of processing system installations centered on vibrating equipment. In other new ventures we are developing unique equipment that borrows technology from other fields, and vibratory technology that minimizes its effect on the surrounding environment. An example is the world’s first sliding conveyor based on horizontal vibration powered by an HD motor. This revolutionary new product is attracting attention as it creates no noise or unwelcome vibration.

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In the production of a versatile range of equipment and research into new technology, we are constantly looking ahead in our quest to maximize the potential of vibratory equipment.

Vibration is all around. We see it as ripples on the surface of water and hear it as sound transmitted through the air. By harnessing the power latent in vibration, vibrating equipment can be used to convey and supply particulate materials and small parts in a wide range of production processes. In such diverse fields as food processing, chemicals, feedstuffs, iron and steel, electronic components and ceramics, vibrating equipment play significant parts in boosting productivity, raising quality and reducing costs. And the challenge continues. New technology is called for to guarantee the steady, reliable delivery of ever more minute and complex components in ever more efficient processes.

SINFONIA produces various types of vibrating equipment. Vibrating conveyors are essential to the production of food and pharmaceuticals, important for human health. Vibrating screens are used for sifting and sorting soils and wastes. Parts feeders supply computer chips and other tiny electronic parts in equipment assembly. These devices have evolved together with the industrial processes they serve.

Vibrating equipment backed by our own vibrating technology, used for everything from particulate materials processing to ultra small parts delivery. Wide-ranging applications support to develop various industry.

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VIBRATING CONVEYORS

A wide range of models, from the conventional to the unique

High-performance vibrating conveyors transfer powdered or granular materials by means of an appropriate type and level of vibration, while processing such as drying, cooling, sorting, cleaning or draining takes place. Comprising many types of trough and powerful vibrating generators, our comprehensive product line up offers conventional models as well as exciting new types utilizing horizontal vibration. Their notable features include vibro-isolating construction that stops transmission of the vibration to the floor, low noise, and easily adjustable vibratory characteristics. They offer new means of conveyance for the efficient processing of all sorts of particulate materials: foodstuffs, chemicals, pharmaceuticals, fertilizers, glass, cement, mineral ores and coal, and contribute to the streamlining and productivity of material processing lines.

A wide range of models, from the conventional to the unique

SIFTING AND SORTING SUITABLE FOR ANY MATERIALS AND USES

Vibrating screens are used for many different purposes: sorting by shape, sorting into grain sizes, eliminating foreign matter, preparing material for later processing, and so on. The types of screens in use are becoming more diverse, reflecting the different shapes, properties and flow characteristics of the materials they are used with, as well as the different environments and ways in which they are used.

We produce vibrating screens in 10 series, using various types of vibration: electromagnetic, eccentric-crank, direct vibration from a vibrating motor, horizontal swivel vibration, etc. Responding to calls for enhanced and more efficient processing of particulate materials, we can supply the optimal screening equipment to suit any purpose and any materials, from fine powder to lumpy matter, by bringing together the appropriate mesh size, processing capacity and type of vibration.

Applications

- Foodstuffs
- Sugar refining
- Feedstuffs
- Fertilizers
- Chemicals
- Glass
- Waste processing
- Mining
- Sanitary ware
- Paper making
- Tobacco products
- Asphalt
- Iron and steel
- Metals

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BM conveyor

MVCB conveyor

RV conveyor

Rubber-spring conveyor

Spiral elevator

BM screen

Wave screen

RV screen

Shakeout machine

Linear drive screen

Electromagnetic screen

RV grizzly feeder
Swift and precise feeding of all sorts of particulates

Vibrating feeders serve a wide range of applications, from the fixed-quantity supply of granular materials to the control of flow for processing. We supply three basic types of feeders: electromagnetic feeders, rubber-spring feeders that generate vibration with a rotating unbalanced weight, and RV feeders that use vibrating motors. All of them feature outstanding performance in fixed quantity supply, due to high feed precision, as well as excellent cut-off characteristics and convenient control of supply quantity.

Whether it’s a single unit, an assembly of units or a combination with weighing or other control devices, we can supply the ideal vibrating feeder to suit the grain size and characteristics of the material to be handled, and the supply quantity required, bringing greater precision, automation and streamlining to processing.

For drying and cooling during conveyance

Vibrating dryer-cooler system comprises a vibrating conveyor, cooling source, fan, and dust removal and extraction equipment. Vibration is used to generate material flow, and air driven through the base of the trough dries and cools the material evenly. By adjusting vibratory characteristics the conveyance/processing time can be freely selected for detailed and precise control of the material’s final temperature and moisture content. Thus, the ideal drying and cooling processing can be obtained for different types of material, as well as different processing conditions and objectives.

Our equipment enjoys an excellent reputation in providing for high quality and high efficiency processing of this type in many fields: not only foodstuffs but chemicals, feeds, synthetic resins, ceramics, and more.

- **Applications**
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Compact devices to assist particulate material processing

Small electromagnetic feeders

These compact and highly accurate vibrating feeders have a variable frequency controller installed as standard to boost efficiency by eliminating the need for time-consuming leaf spring adjustment. With superior cut-off characteristics, they excel at the delivery, output and measured delivery of all sorts of particulate materials. Ideal for small quantities, when combined with a weighing device, precise fixed quantities.

Linear feeders

In these straight line conveyance feeders, the angle of vibration and amplitude can be modified at will by adjusting the angle of the two leaf springs positioned at each end of the device. This is the ideal conveyance for fine powders that scatter, materials that are easily damaged, or small parts that may bounce.

They can be linked in series to move materials over longer distances, or used side by side in versatile configurations.

Flow control valves

Easily attached to the outlets of hoppers, bins or chutes, flow control valves control material flow by a sleeve opening or closing like a camera aperture. There are two basic types: manual, adjusted with a handle, and motor-driven, for automated control.

Vibrators

High performance vibrators can be attached to hoppers, bins or chutes to eliminate blocking, arching, adhesion and clogging. We produce a series of models in each of these basic types, to give the optimal match with the application and material. Vibrators may also be used as a vibration source for many types of vibrating equipment.

Vibrating packers

A vibrating surface on which cans and jars can be filled swiftly and evenly with powder and granular materials, such as pharmaceutical products or chemicals. Once switched on, filling is instant and containers do not have to be attached in any way, so filling can proceed continuously.

Delivering the tiniest components, from bolts to chips

From the latest mobile data communications devices to electrical appliances, machinery, foodstuffs and pharmaceuticals, the handling of components is a vital part of production lines in a wide range of fields. We bring to the task the quality products and advanced know-how of a leading manufacturer of parts feeders, aiming to increase efficiency in regulation and delivery of parts of all shapes and sizes, and supply of powder materials in very small quantities.

Furthermore, working from existing vibratory technology, we are researching new parts handling systems through the development of our own drive systems and manufacture of specialized controllers to address needs for faster, more accurate and more reliable automatic regulation and delivery.

Applications

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- Feedstuffs
- Fertilizers
- Chemicals
- Glass
- Ceramics
- Plastics
- Synthetic fibers
- Paper making
- Tobacco products
- Iron and steel
- Crushed stone
- Sanitary ware
- Casting and forging
- Asphalt
- Mining
- Machinery
- Electrical equipment
- Waste processing
- Vehicles
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- Metals
Bringing experience and technology to coffee making

Our vibrating technology plays an important role in the production of fine flavored coffee. Changes in consumer preference have resulted in many different types of coffee, and demand continues to expand. Coffee processing facilities must become increasingly sophisticated to respond to consumers’ diversifying preferences and make better coffee. We supply a comprehensive coffee processing plant that uses vibrating equipment for its happen, conveyors, and cooling/drying processes. With 40 years’ involvement in coffee processing, we bring together lasting experience and the latest technologies to guarantee a full response to individual client’s requirements and contribute to the production of rich-tasting and aromatic coffee.

Global Engineering & Development Center

With a skilled research and technical staff, and state-of-the-art testing facilities, we undertake basic testing of all types of particulate materials, and work towards developing new products, new technologies and new applications. Many types of vibrating equipment and cooling and drying processing equipment have been installed for accurate tests on material samples, and for performance and assessment testing. The Center is responsible for the continuing development of our technology, and contributes to advances in particulate material processing by responding to individual customer’s specialized needs.

Experimental facilities

- Test installation for vibrating drying and cooling processes
- Vibrating conveyors and screens for testing purposes

System flow diagram

- Dust remover
- Input hopper
- Vibrating screen
- Fresh bean silo
- Devolutilizer
- Roasted bean silo
- Roasted bean weight control
- Granulator
- Automatic packing
- Ground coffee silo
- Fresh bean weight controller
- Fresh bean oven