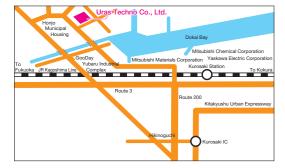


http://www.uras-techno.co.jp/en



Head Office & Kyushu Sales Office

1-1 Dohoku-machi, Yahatanishi-ku, Kitakyushu City, Fukuoka 807-0811, Japan

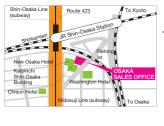
TEL: +81-93-693-8301 FAX: +81-93-693-8306 E-mail: utc_kyushu@uras-techno.co.jp



Tokyo Branch Office & Overseas Sales Department

2F Senbo Building, 2-16-9 Uchikanda, Chiyoda-ku, Tokyo 101-0047, Japan TEL: +81-3-3254-6101 FAX: +81-3-3254-6105

TEL: +81-3-3254-6101 FAX: +81-3-3254-610 E-mail: utc_tokyo@uras-techno.co.jp



Osaka Branch Office

4F Recruit Shin-Osaka Building, 5-14-22 Nishinakajima, Yodogawa-ku, Osaka City 532-0011, Japan TEL: +81-6-6390-0834 FAX: +81-6-6390-0836 E-mail: utc_osaka@uras-techno.co.jp



Nagoya Branch Office

2F Minami Sakae Building, 1-22-16 Sakae, Naka-ku, Nagoya City 460-0008, Japan TEL: +81-52-219-5580 FAX: +81-52-219-5581 E-mail: utc_nagoya@uras-techno.co.jp

Powder Engineering Center

Murakami Seiki Mfg. Co., Ltd.

1-1 Dohoku-machi, Yahatanishi-ku, Kitakyushu City, Fukuoka 807-0811, Japan TEL: +81-93-601-1037 FAX: +81-93-601-1041

Vibration Equipment Powder Engineering Center

Daito Vibration Engineering Co., Ltd.

5-9-18 Shioe, Amagasaki City, Hyogo 661-0976, Japan TEL: +81-6-6422-2041 FAX: +81-6-6422-2047

Chiba Doryoko Co., Ltd.

49-2 Chigusa-cho, Hanamigawa-ku, Chiba 262-0012, Japan

TEL: +81-43-259-1035 FAX: +81-43-250-0821



For ease of viewing, products in this catalog are photographed without safety devices or equipment, such as safety fences, required by laws/regulations.

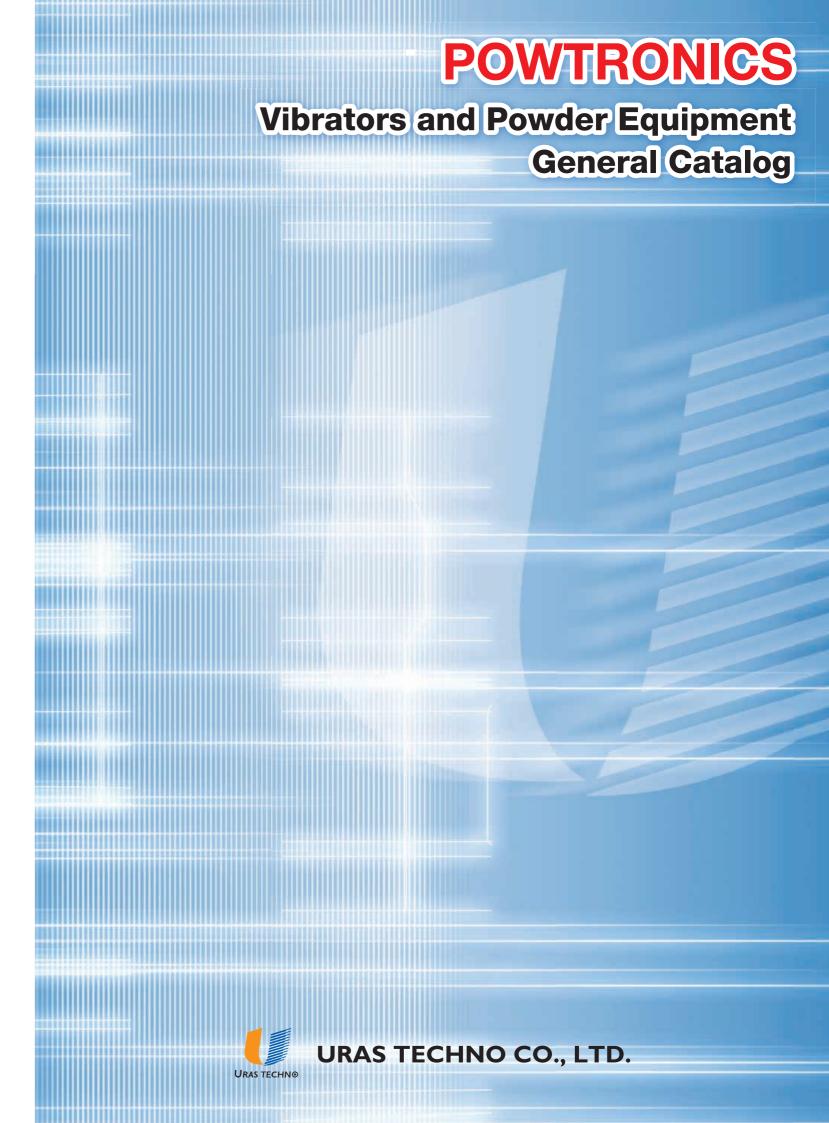
Also, illustrations and sketches within may not completely represent the products.

Before using any product, thoroughly read the instruction manual and other reference documents.

Note: The contents of this catalog are current as of August 2012.

Specifications, appearance, and other factors are subject to change without notice for product improvements.

UTC-2E Ver1.0 2013.03.05







Shoji Hashimoto
President and Chief Executive
Officer

President's Message

Uras Techno aims to provide

- Solutions that use our matchless technologies in vibrators and powder equipment
- Unique powder and granular material handling equipment designed with our vibration technology
- Powder and granular material systems in which powders and control technologies are integrated.

We are experiencing a shift from mass consumption and disposability to an age where importance is placed on people, resources and the earth. We work with our customers to construct solutions that meet their needs in this age of new values.

As a source of creative technology, Uras Techno seeks to support customers with vibration and powder technologies.

Businesses

- 1. Sales, import and export of vibrators and powder equipment
- 2. Design and construction of powder and granular material production and processing equipment

Profile

Established: February 9, 2000

Capital: 50 million yen (authorized capital: 200 million yen)

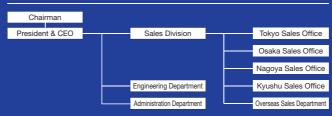
Head office: 1-1 Dohoku-machi, Yahatanishi-ku, Kitakyushu

City, Fukuoka 807-0811 Japan

Directors: Chairman & CEO Hiroshi Murakami
President & CEO Shoji Hashimoto

Director Yoshiro Hanasaki Director Harumi Gonda

Organization Chart



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POWTRONICS Responds to Customer

Needs with System Solutions

Vibrators

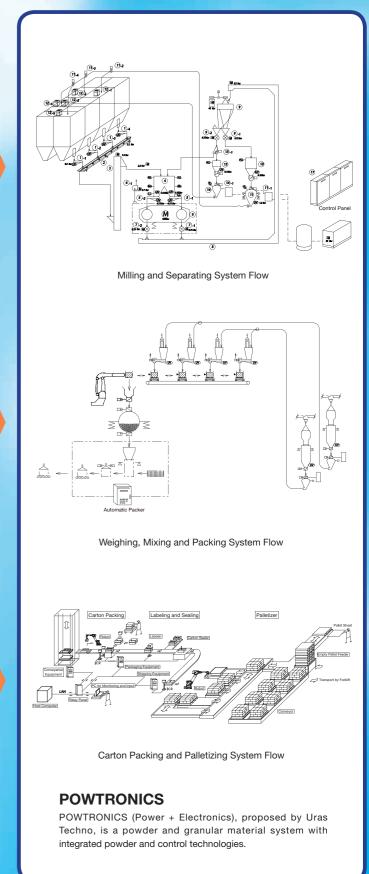
Applied Vibration Technologies

Powder Processing Technologies

Systems







Vibrators

The Global Standard in Vibrators

URAS







URAS vibrators are motor-driven high performance vibration generators.

Since their introduction to the market in 1959, URAS vibrators have undergone constant evolution, and the number of units delivered has surpassed 80,000. Our vibrators are being used in various industries around the world, particularly in materials industries.

We have an extensive lineup of models to meet the diverse needs of our customers. Long service life, ease of maintenance and high reliability are assured.

Our extensive track record and reputation over the years have proven the performance of our products as being a true global standard

The URAS quality delivered to you will make you realize that machines encompass change.

Standard URAS KEE



Applications

- Hopper clogging prevention
- · Vibration machines, etc.

Standard Single-Phase URAS SEE



Applications

- Hopper clogging prevention
- Vibration machines, etc.

Safety-Enhanced Explosion-Proof KZE



Applications

 Can be used in Class Il hazardous locations where a hazardous atmosphere may be generated.

Features

Certified as explosionprotected electrical equipment by the Technology Institution of Industrial Safety

Vertical (Flange Type) KEEV



Applications

- Circular screen
- Barrel finishing machine

Features

With upper and lower weights of different mass attached, this model generates three-dimensional vibrations.

High-Frequency URAS KHE



Applications

Pouring concrete

Features

Generates vibrations in the range of 100 to 180 Hz.

URAS with Stainless Steel Covers



Application

- Hopper clogging prevention
- Vibration machines,

Features

With stainless steel covers installed, this model is rust-resistant and enables frequent cleaning.

Pneumatic Series

Turbine Vibrators



Applications

 Food, pharmaceutical processing

Features

- Very small Weight: 20gVibration force: 50N
- Oil-free (Made of acetal resin or stainless)
- steel)
 Low noise

Air-Cushioned Model



Applications

Prevention of material adhesion to hopper and chute wallsVibration machines,

Features

Air cushion prevents the piston from directly contacting the frame.

Single Impactor



Applications

Prevention of material adhesion to hopper and chute walls

Features

Hammers automatically (using compressed air).

Feeders and Conveyors

Vibro Hopper



Features

 Prevents bridging by directly applying vibrations to the baffle.

Specifications

• Vibro Hopper diameter: 400 to 2400 mm

Applications

 Discharging powders and granular materials from a hopper or a silo

Vibro Feeder



Features

The force-feed construction helps the feeder to prevent material adhesion and load fluctuations

Specifications

Transport capacity: Up to 5000 t/h

Applications

 Discharging and feeding powders, granular materials and lumpy materials

Electromagnetic Feeder



Features

- Driven by an electromagnet.
- Smooth start and stop operation, with minimized coasting before coming to a full stop.

Specifications

• Feeding capacity: Up to 900 t/h

Applications

- Discharging and feeding powders, granular materials and lumpy materials
- Feeding to scales

Air Feeder



Features

- Pneumatically driven.
- Can be used in locations with explosion-proof requirements.

Specifications

• Feeding capacity: Up to 10 t/h

Applications

Discharging and feeding powders and granular materials

Vibro Conveyor



Features

 Easy to clean with no transported material falling from the conveyor

Specifications

• Transport capacity: Up to 150 t/h

Applications

 Conveyance, heating and cooling, etc. of powders, granular materials and lumpy materials

Vibro Lift



Features

Vertical conveyance with a spiral trough

Specification

Lifting range: 1000 to 2200 mm

Applications

- Cooling of pellets
- Vertical conveyance of powders and granular materials

Electromagnetic Multi-Conveyor



Feature

- Applicable to conveyance of long objects (up to 30 m).
- Less vibration transmitted to the floor
- Maintenance-free

Specification

Transport capacity: Up to 125 t/h

Applications

Conveyance of powders, granular materials and lumpy materials

Bowl Feeder



Feature

- Hopper and feeder functions in one unit
- Can be used to align materials.

Specification

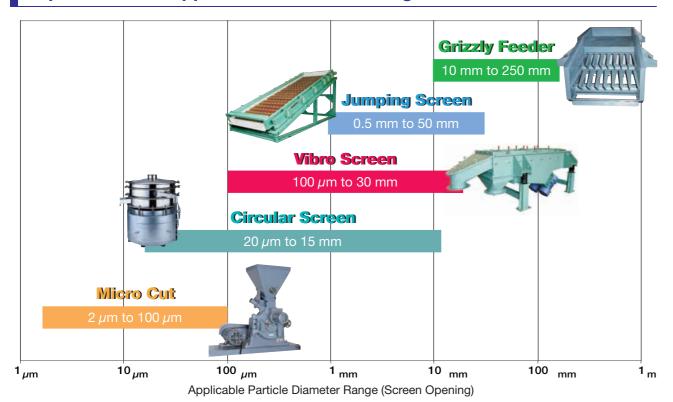
Bowl diameter: 500 to 1500 mm

Application

- Cleaning of metals, and feeding of short fiber and flake materials
- Aligned feeding of foods, and surface dredging of additives on foods

Screeners

Separators and Applicable Grain Size Ranges



Vibro Shakeout Machine



Features

Separates sand from castings with vertical vibrations.

Specifications

- Grate dimensions: 100 x 1500 to 2000 x 2500 mm
- Load capacity: 1000 to 8000 kg (including the grate)

Applications

Shaking sand out of castings

Vibro Grizzly Feeder



Features

- Large capacity—suited for screening of materials with large lumps
- No adhesion of mud or other materials

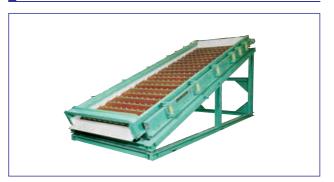
Specifications

- Processing capacity: Up to 600 t/h
- Trough width: 600 to 2400 mm

Applications

Screening of raw stones

Jumping Screen (Flip-Flow Screen)



* Jumping Screen is on sale only in Japan.

Features

 No clogging—even moist and adhesive materials can be stably and efficiently screened.

Specifications

• Screen area: 1 to 26.5 m² - - - (single or double deck)

Applications

Sieving of recovered casting sand, muck, breeze, coal, plasterboard, crushed ore, scrap from demolished houses, and shredder residue.

Vibro Screen



- Catalot

User can choose from screen and construction type selections in accordance with the characteristics of the material to be screened

Specification

- Effective screen area: 0.31 to 9.4 m²/deck
- Number of decks: From 1 to 3 decks

Application

- Screening of mineral products, chemical products, resins, pharmaceutical products, and other materials.
- Dehydration of materials

R-Type Screen (Circular Screen)



Feature

• Repeated batch operations with counterclockwise turns (when screening) and clockwise turns (when discharging) enable a 95% or greater recovery rate of fine powder under the screen, a rate that was formerly difficult to obtain.

Specifications

- Screen diameter: 500, 800, 1000, 1200 and 1500 mm
- Number of decks: From 1 to 3 decks
- Screen opening: 20 to 15 mm

Application

 Screening of iron oxide, solder powder, alumina, titanium oxide, carbon powder, tea leaves, etc.

Bull-Top Separator



Features

 Disintegrates and screens casting sand (residual slag) and similar materials.

Specifications

Processing capacity: Up to 1000 kg/h

Applications

· Residual slag for recycling, etc.

Micro Cut Air Classifiers

Micro Cut can classify larger volumes of microscopic particle sizes than screen separators can.

Model: YACA-132H



Features

- \bullet Classification diameter range can be set from 2 to 15 μ m.
- Clear particle size distribution can be achieved.

Specifications

Processing capacity: Up to 50 kg/h

Applications

• Toner, carbon, ferrite, silica, talc, alumina, activated coal,

Models: YACA-400H, 400HS, and 400HU



Features

- Classification diameter range can be set at 3.5 to 50 μm for the smallest range.
- Clear particle size distribution can be achieved.

Specifications

Processing capacity: Up to 2500 kg/h

Applications

Toner, carbon, ferrite, calcium carbonate, silica, talc, alumina, activated coal, etc.

Models: YACA-400V, 600V, 1000V, and 1350V



Features

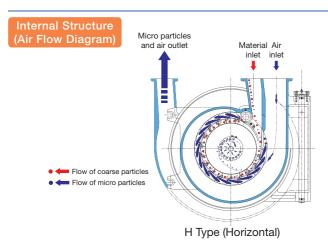
- \bullet Classification diameter range can be set from 8 to 100 μm .
- Easy to operate, and saves installation space with the builtin micro-powder collector.

Specifications

Processing capacity: Up to 20 t/h

Applications

Toner, carbon, ferrite, calcium carbonate, silica, talc, alumina, activated carbon, etc.



Classifying air

V Type (Vertical)

Milling Machines (Vibro Mill)

• These machines apply circular vibrations to mill, mix, and disperse any kind of powder or granular material, and to polish their surfaces.

Continuous Vibro Mill



Features

 Applicable to both wet and dry milling, continuously mills at a high speed.

Specifications

- Drum capacity: 20 to 2000 ℓ
- Processing capacity: Up to 40000 kg/h

Applications

Alumina, lime, ferrite, carbon, pharmaceutical products, incinerated residue, coke, blast-furnace slag, waste concrete aggregate for recycling, etc.

Reverse Batch Vibro Mill



Features

- Fully automatic operation of material loading and discharging
- Complete discharge within a short period of time

Specifications

- Drum capacity: 100 to 1000 ℓ
- Feed capacity: Up to 300 ℓ

Applications

• Alumina, fine ceramics, ferrite, carbon, etc.

Horizontal Batch Vibro Mill



Features

Ideal for micro-milling

Specifications

- Drum capacity: 20 to 2000 ℓ
- Feed capacity: Up to 600 ℓ

Applications

 Alumina, ferrite, carbon, pharmaceutical products, metal powder, etc.

Vibro Pot



Features

 Ideal for small sample production runs of materials ranging from granular materials to super-micro particles

Specifications

• Drum capacity: 1.2 ℓ x 2 to 3 ℓ x 2

Applications

Production of sample quantities for analysis and research

Filling Machines (Vibrating Tables)

Vibro Packer



Features

 Pours and compacts powder and granular materials at a high speed using one or multiple units of the URAS vibrator.

Specifications

• Vibration acceleration: 20 to 70 m/s² (2 to 7 G)

Applications

- Pouring casting sand into molds, and removing air from secondary concrete products
- Filling flexible containers
- Bag aligning

Electromagnetic Packer



Features

- A vibrating table using an electromagnet drive
- Easy to adjust vibration acceleration

Specifications

• Vibration acceleration: Up to 110 m/s² (11G)

Applications

• Filling of carbon, magnetic materials, fine ceramics, etc.

Example of Filling and Weighing Equipment Vibrating packer

Scales

Hopper Scale



Features

• A load cell-based weighing hopper and a control system.

Specifications

Rated capacity: 5 to 2000 kg/h

Applications

Measurement of powders and granular materials

Container Bag Auto-Weighing and Filling Equipment



Feature

An automatic container bag weighing and filling system.
 Gross weighing type with load cell-based platform scale.

Specifications

- •Weighing range: 200 to 2000 kg
- Capacity: 10 to 30 bags/h

Applications

Weighing and filling products in container bags

Gross-Type Packer Scale



Features

- A gross weighing scale for powder and granular products
- The feeder may be cut gate, vibrating feeder, screw feeder or another. In some applications, this scale is used with a combination of different feeder types.

Specifications

- •Weighing range: 5 to 30 kg
- Capacity: Up to 180 bags/h

Applications

Weighing and pouring material into open bags

Automatic Corrugated Box Packing Machine



Features

- A gross weighing scale for powder and granular products
- The feeder may be cut gate, vibrating feeder, screw feeder or another. In some applications, this scale is used with a combination of different feeder types.

Specifications

- Weighing range: 5 to 30 kg
- Capacity: Up to 180 cartons/h

Applications

Weighing and pouring material into corrugated boxes

Other Products

Step Flow



Pipe pressure is constantly monitored, and pressurized air is replenished for smooth material transportation.



Relay station

Features

- Plug-flow dense-phase pneumatic conveying equipment
- Powder or granular material in the pressurized tank is pushed out in a densely filled state, without fluidization, and transported in the flow of plugs formed by the impulse valve.

Specifications

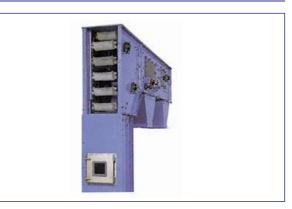
- Pressurized tank capacity: 30 to 5000 ℓ
- Transport pipe diameter: 50 to 250 A
- Transport distance (actual value): 300-m horizontally, 54-m vertically

Applications

- High-density materials: Metal powder, ore powder, etc.
- High-abrasive materials: Fused silica, casting sand, glass powder
- Fragile materials: Pelletized carbon, activated carbon, salt,
- Highly-adhesive materials: Coal (10% moisture content), gypsum

Pivotal Conveyor

Impulse valve



Features

 Horizontal and vertical transporting equipment using overlapping buckets

Specifications

- Transport capability: 3 to 40 m³/h
- Conveyor length: Up to 30 m

Applications

• Food products (sugar, coffee, etc.), pharmaceutical products, magnetic materials, activated carbon, glass fiber, etc.

Accurate Feeder



Features

 Powders and granular materials are fed at a uniform rate, without bridging, in an oscillating resin hopper.

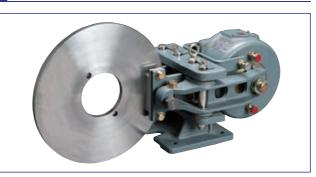
Specifications

- Feeding capacity: 0.045 to 26000 ℓ/h
- Flexible hopper capacity: 2 to 80 ℓ

Applications

 Uniform feeding of powders and granular materials with poor fluidity

Caliper Brake



Features

- Clamping disc brake using electromagnets
- Small, lightweight, and easy to handle.

Specifications |

Braking force: 196 to 2450 N

Applications

• For hoisting, travelling, traversing and swiveling of crane, winch, lift, elevator, crusher, bending roller, conveyor, etc.



Application to Vibro Mill

HK Quick Sieve



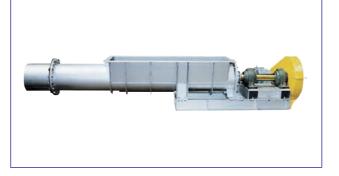
Features

- On-site particle size measurement
- Faster and more efficient than hand sifting or a sieve shaker

Specifications

- Complies with JIS standards for Ø200 sieves.
- Uses oil-free pressurized air: ~0.55 Mpa, 40 ℓ/min

Screw Feeder



Feature

•The screw shape is selected in accordance with the properties of the powder or granular material to be fed.

Applications

- Discharging of powder
- Controlled operation in combination with scale

System Application Examples

Vibration Mill for Cleaning



Equipment

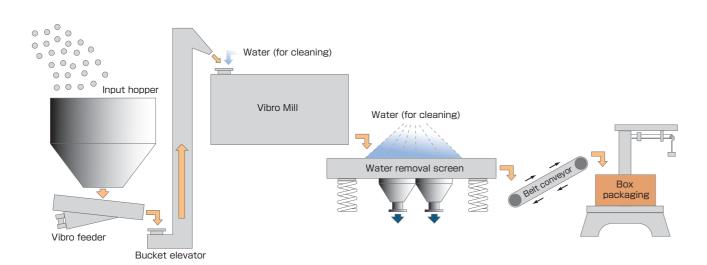
- Nickel anode cleaning equipment
- Continuous cleaning equipment using vibration mill YAMS-20

Specifications

- Processing capacity: 500 kg/h
- Water consumption: 300 ℓ/h

Applications

• Removing and washing of surface adherents from metal grains, coins, crushed glass, ceramic balls, etc.



Nickel Anode Cleaning Equipment Flow Chart

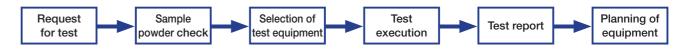
Guide to Sample Testing

The Powder Engineering Center has various testers that can help with milling, classification, screening, conveying, feeding, and other needs. Our extensive record of accomplishment and our experiences allow us to propose the most appropriate tests and optimal equipment.





Flow from Request to Equipment Planning



List of Test Equipment

Equipment	Name	Model	
Milling machine	Vibro Pot	YAMP-6S	
		YAMP-4J	
	Vibro Mill	YAMT-20SNVB	
		YAMH-25FN	
		YAMT-20JNVD	
		YAMT-100FNVF	
Classifier	Micro Cut	YACA-132H	
		YACA-400H	
		YACA-400HS	
		YACA-400V	
Screener	Jumping Screen	LF-0.5-2.52/8ED	
	Vibro Screen 1	SFZF-60-360B-2	
		SWU-30-300Z	
	Electromagnetic Feeder	MFW-46-90S	
		MFS6-10-50S	
Feeder	Vibro Feeder ^{*1}	FDF-32-110	
		FD-66-220	
	Vibro Hopper 1	YAFA-60FE	
	Ball Feeder ^{*1}	BDF-67	
Conveyor	Electromagnetic Multi-Conveyor	MCP-30-25L	
	Vibro Conveyor ⁻¹	CD-45-03	
	Vibro Lift ¹¹	YULP-20015SWR	
	Step Flow	VPP75F/50	
		VPP250F/100	
Filling machine	Vibro Packer ^{*1}	PD-70-70	
Analyzer	Particle Size Measuring Device	Low tap shaker	
		Air jet sieve	
		Micro track	
	Specific Surface Area Meter	Shimadzu specific surface area measuring device	
	Powder Characteristics	Powder tester	
	Moisture Meter	Infrared aguameter	
*1. Vibra agina test equipment is installed at the Vibratian Equipment Poundar Engineering Contar of Daith Vibratian Engineering Co. Ltd.			

^{*1:} Vibro series test equipment is installed at the Vibration Equipment Powder Engineering Center of Daito Vibration Engineering Co., Ltd.

[◆]For inquiries, please contact us.