

Ultrasonic VIBRATING SIEVE

S
type

*Ultrasonic vibration
eliminates
screen-clogging
problems.*



KFSR-800

TRY TO NEW TECHNOLOGY

KOWA

Use of a screen with an opening of 100 μ m or less eliminates clogging problems and improves the sieving capability.

Conventional sieves have several problems, sieving capability of super-granulized powder particles, screen clogging problem, and foreign matter entry. To solve such problems, KOWA has made Telsonic's ultrasonic unit built into the sieve screen. Use of this newly

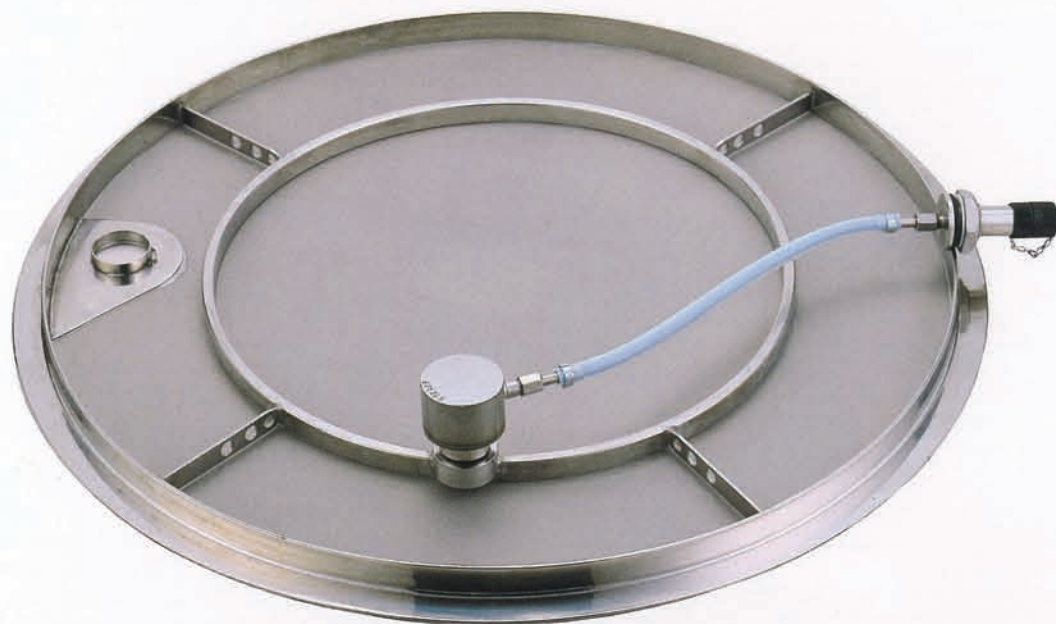
developed mechanism achieves sieving of raw materials, which could not be sieved by conventional machines and makes the sieves applicable to a wide variety of fields.

Ultrasonic unit applicable models

By combining the ultrasonic unit with KOWA's vibrating sieves, particularly those having specific features, sieves are made applicable to a wide variety of fields.

Ultrasonic unit can be built into only cartridge type sieve models.

- **KFS type** The ultrasonic unit is built into the standard model.
- **KFSR type** This model has sieving capability 1.5 times larger than that of the KFS type, keeps a classification accuracy of 95% or more, and achieves to completely discharge products from the sieve screen.
- **KVSH type** This model can be installed in a low place.



Primary effects

- 1 Prevention of screen-clogging problems**
Use of a screen with an opening of 100 μ m or less may prevent clogging problems caused by sticking or catching of fine particles. This eliminates lowering of sieving capability, ensuring the stable performance.
- 2 No tapping rubber required**
Tapping rubber, which is conventionally used for prevention of clogging problems, is not needed. This eliminates foreign matter entry caused by worn out tapping rubber.
- 3 Easy overhaul and cleaning**
The ultrasonic cartridge screen is separated from the converter. The screw joint mechanism allows easy overhaul and cleaning, ensuring highly sanitary work environment.
- 4 Easy screen replacement structure**
A screen is glued to the cartridge. Use of the special screen replacement kit (optional) allows everyone to quickly replace the screen in a simple manner.

Features of different models

KFS Type

- In this model, the ultrasonic unit is built into the standard model.
- This model is specially designed only for continuous operation. It is also possible to stack two additional sieves (three kinds of classifications in total).
- Four kinds of models are available, 500, 800, 1000, and 1200.

Top removal type



※For 1000 or higher models, it is necessary to investigate the type of screen.

KFSR Type

- In this model, the ultrasonic unit is built into the R type (reverse type) sieve.
- For discharging of products from the screen of the R type sieve (reverse type), this model has an almost complete product discharging structure.
- The newly developed structure to discharge on-screen products remaining on the upper frame is applied for a patent (patent pending).
- This sieve provides two kinds of operation methods, batch operation (for details, see the specifications for R type) and continuous operation. An optimal operation method suitable for work can be selected.
- The capability of R type operation (reverse operation) is improved, in particular, ultimate classification efficiency of the vibrating sieve is achieved.
- This model can sieve products with light specific gravity, and those with good fluidity that may easily cause flushing.
- Four kinds of models are available, 500, 800, 1000, and 1200.

Bottom removal type (The bottom removal type is optional.)



KVSH Type

- In this model, the ultrasonic unit is built into the hopper type sieve.
- The overall height of the sieve is low, allowing installation of the sieve in a low place.
- This model is specially designed only for continuous operation. It is also possible to stack additional one sieve (two kinds of classifications in total).
- Four kinds of models are available, 500, 800, 1000, and 1200.

■ Ultrasonic generator unit (made by Telsonic)

Power supply Single-phase 230V \pm 15%, 50/60Hz
Current consumption Max. 1A
HF current 0.5A
HF voltage 1400V
Frequency 36KHz
Operation modes Continuous and pulse
Allowable ambient temperature 0-45 $^{\circ}$ C
Safety standard IP65
Outside dimensions 300 x 300 x 160 (mm)
Weight 6.3kg
Intensity adjustment 50-100%



■ Converter

Removable type converter ensures easy replacement.



■ Ultrasonic cartridge screen (Resonant ring type)

A metallic screen with an opening ranging 20 to 250 μ m can be used. The design of the cartridge screen is separate and lightweight.



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