

Motionless mixer

New motionless mixer

Kongokun

New motionless dispersion mixer

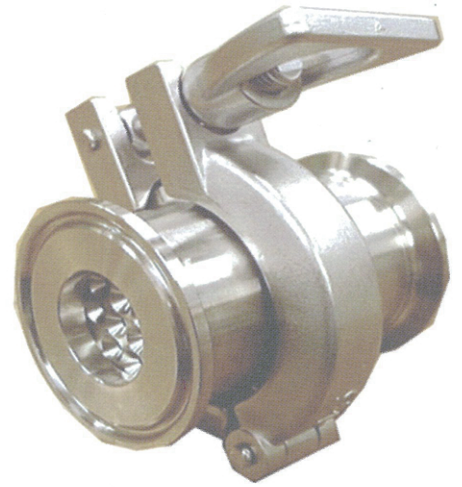
Bunsankun

Fujikin Incorporated

Product introduction

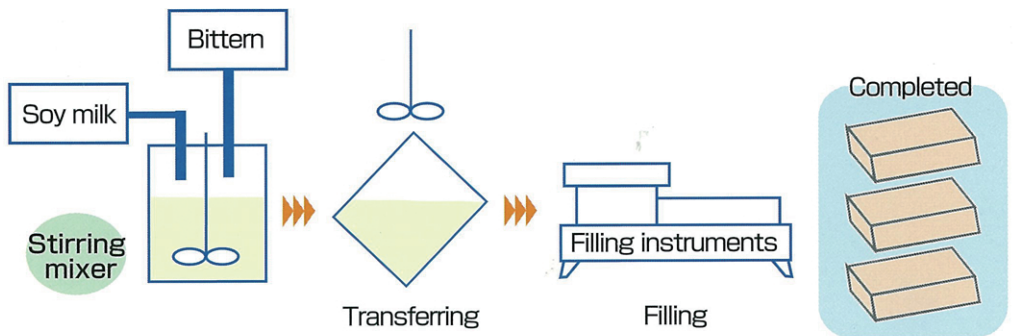


Conventional mixers are expensive to operate because of their inefficiency in mixing and dispersing. The new Kongokun and Bunsankun motionless mixers are not only highly efficient, but also can save operating time, and have compact, easy-to-clean bodies.

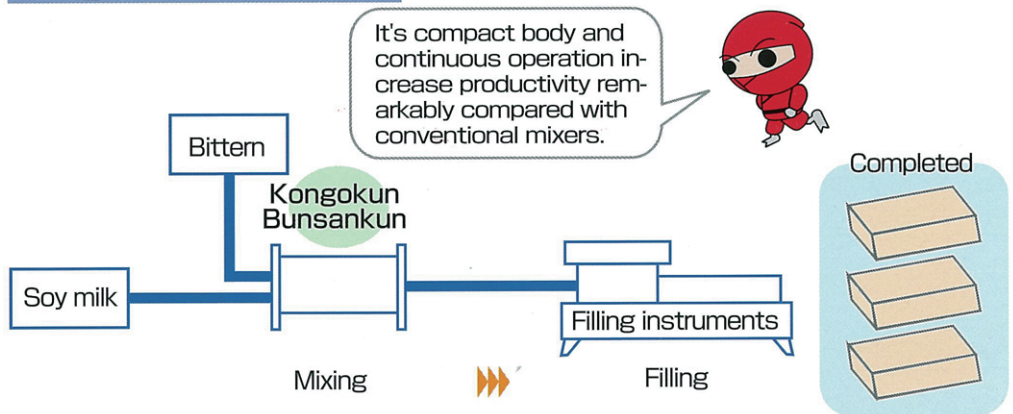


Application example:
Manufacturing processes for soybean curd

Conventional mixer



Kongokun, Bunsankun



- ★ Even mixing.
- ★ Adjustable emulsion settings.
- ★ Automatic operation.
- ★ Compact.
- ★ Easy scaling.
- ★ Easy cleaning.
- ★ Various applications for any purpose: not only liquids but also powders and gasses.
- ★ Excellent for mixing substances facilitating reactions.

Applications

Kongokun and bunsankun motionless mixers can be used in many fields. Here are some of the possible applications.

★ Heat Transfer in Blending Fluids

Enhance the efficiency in heat exchange (up and down).
Direct heating by steam, production of hot water.

★ Crushing, Mixing and Extracting

Neutralization of wastewater.
Extraction of lycopene from tomatoes.

★ Dissolving and Crushing

Crushing lumps (such as flour or chocolate)
Dissolving chemicals (hydroxypropyl methylcellulose into deionized water).

★ Extraction

Liquid-liquid extraction (hexane collects a particular substance in slurry).

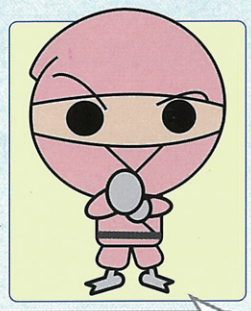
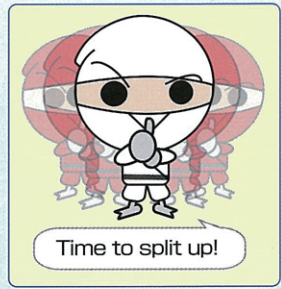
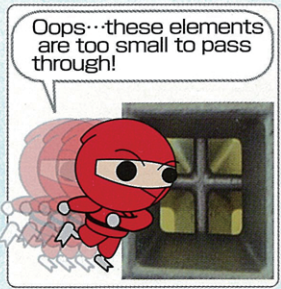
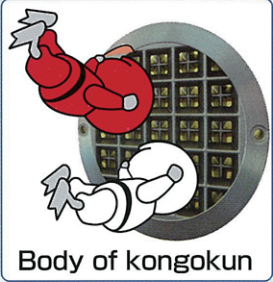
★ Absorption, Diffusion and Humidity Conditioning

Deoxidation in water.
Aeration absorption of waste gas Humidity conditioning.

★ Reaction

Liquid-liquid reactions, liquid-gas reactions,
gas-gas reactions, emulsion polymerization reactions.

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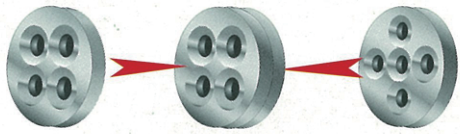


And now we are evenly blended to pink!

Note: Each time particles pass through an element, the particles are distributed more evenly.

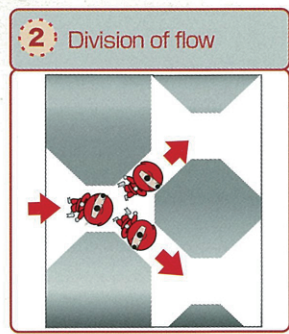
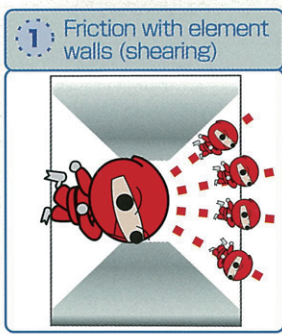
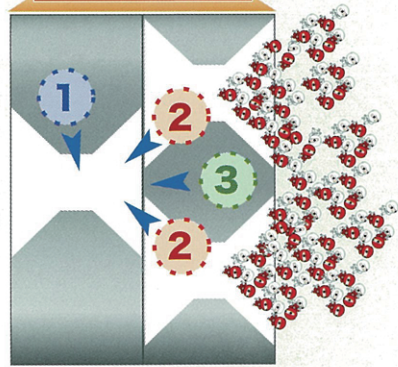
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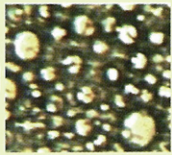
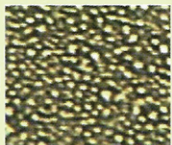
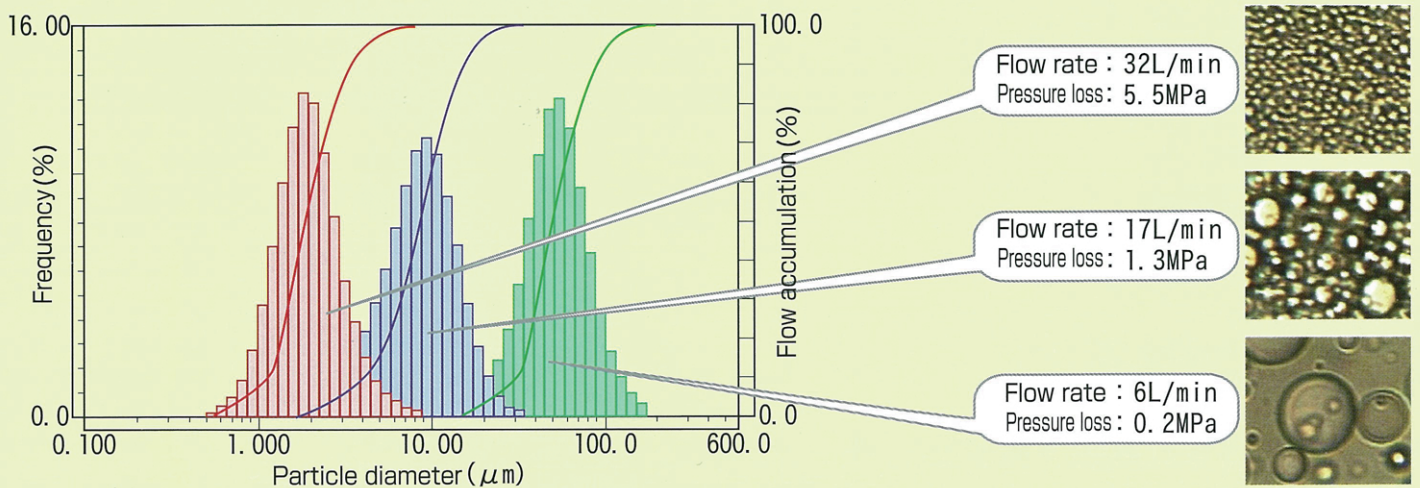


The Bunsankun is designed for emulsification dispersion. This Bunsankun can create particles of any size according to your needs, by changing the flow rate and the number of cycling times. The Bunsankun also provides even distribution of scaling, shearing and cavitation effects.

Cross-section view



Diameter of type O/W emulsion processed by 10 Bunsankuns



Fujikin®



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The Year 2005
The 1st Monozukuri (manufacturing)
Nippon Grand Awards
: Excellence Prize