

Energetic Company
at Kawasaki City, Kanagawa
Prefecture, Japan

Company Profile



URL: <http://www.nagaosystem.co.jp/>

Company name: Nagao System Inc.

Established: October, 1993

Address: 1-9-30 Katahira, Asao Ward, Kawasaki
City, Kanagawa pref. Japan. (Zip code 215-0023)

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Representative: Fumiyoshi Nagao

Capital: 10,000,000 yen

Overseas office: Bangkok, Ho-chi-min

Prospective overseas business

Aggressively develop overseas from the time of
delivery to Bangkok King Mongkut University in March
2016. Right now, we are using overseas distributors in
Taiwan, Thailand, Vietnam, Malaysia, Indonesia, USA,
Mexico to develop overseas business.

Main business

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delivery to Bangkok King Mongkut University in
March 2016. Right now, we are using overseas
distributors in Taiwan, Thailand, Vietnam,
Malaysia, Indonesia, USA, Mexico to develop
overseas business. • Manufacture and sales of
electric motors and electric rotating machinery

- Manufacture of laboratory instruments and
equipment
- Manufacture of medical equipment
- Design consultancy service for electric
equipment and machinery

Company : Nagao System Inc.

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Introduce : NAGAO SYSTEM INC. is a professional group that solves dry and wet
mixing, dispersion, emulsification and milling, which was previously considered
impossible by utilizing high-speed 3D motion of a patented 3D ball mill (3D Reactor).
We are good at small rotary equipment mainly for laboratory.

Strength : There are many rotary equipment that utilize normal 2D high-speed motion.
We realized 3D high-speed motion and solved dry and wet mixing, dispersion,
emulsification and milling, which was previously considered difficult.

Main products (Middle / Small Size) 3D Ball Mill(3D Reactor)

mm or less (organic / inorganic) materials can be pulverized, mixed and dispersed up to Nano microns
(dry & wet type). Furthermore, it is good at mixing, dispersion, emulsification (3D reactor) with highly
uniform mixture of (organic / inorganic) substances with different specific gravity and viscosity. The
weak point of 2D motion is affected by gravity and high specific gravity and fine material will agglutinate
to the bottom. High speed 3D motion, however, utilizes all the inner wall surfaces of the container ,
Even with heavy or fine materials, it is the greatest feature that it does not give agglomeration time.
The difference between the conventional high speed 2D motion and the high speed 3D motion
【Low heat generation】 【High uniformity】 【Non-agglutination】

The above three points are big differences!

In recent years, organic matter of a 3D ball mill (3D Reactor)

Demand for mixing, dispersing and emulsifying inorganic substances is rapidly increasing.

Difference between high-speed 3D motion and high-speed 2D motion

- ✓ High-speed 2D motion is non-critical. Non-agglomerated and non-solubilized particles realized.
- ✓ 3D ball mill (3D Reactor) can mix substances of different specific gravities and viscosities uniformly without using blades.

High speed 3D motion (Critical) | High speed 2D motion (Critical)

3D Ball Mill (3D) | 2D Ball Mill (2D)

Strong friction force rotation utilizing the whole container. There is no criticality. | Criticality occurs in high-speed 2D motion.

Comparison of dry pulverization after 240 minutes (SEM&Dg):

- 3D Motion: [Ment in details Organic Matter milling] [Ment in details Confluence of mixed and milling base]
- 2D Motion: [Ment in details Confluence of mixed and milling base]

Milling temperature change

3D ball mill has low temperature change due to milling and proves high milling ability