

In pursuit of better performance on solid dispersion with more compact design

Using the state-of-the-art technology, we have optimized conventional paddle impeller for better dispersion of solids.

Solid particle suspension can be achieved in lower power consumption with simple LtBLEND impeller producing efficient flow.

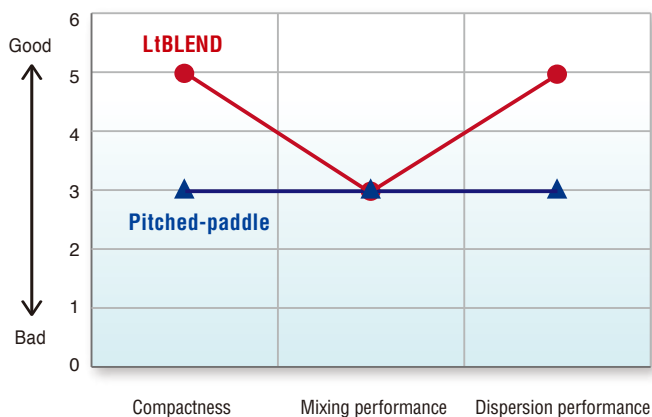
Characteristics

- ① **More compact (lower torque)**
 (reduce initial cost)
- ② **Low power consumption; energy saving operation**
 (reduce running cost)
- ③ **Simple two blades shape; Easy maintenance**
 (reduce cleaning time and maintenance cost)

Sumitomo's
 High Dispersion Compact Impellers
LtBLEND

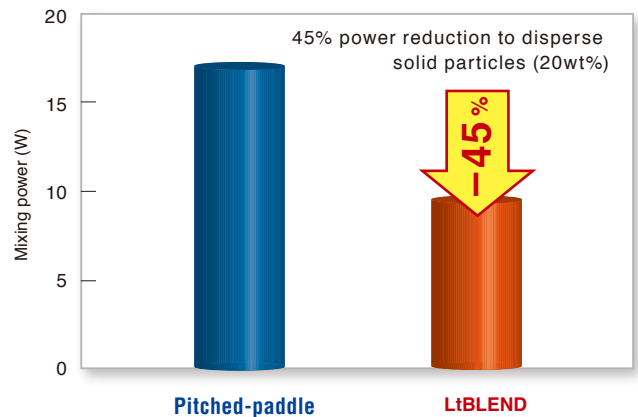
Comparison with conventional impellers

LtBLEND is a compact, low power mixing impeller with excellent performance in dispersion of solids keeping same mixing performance level as conventional general-purpose paddle impellers.



Comparison of dispersion performance

By means of efficient flows, dispersion of solids can be achieved at low mixing power. Tests for dispersion of solid particles shows energy savings of about 45% in comparison with pitched-paddle impellers.



Technical Services

It is possible to obtain test data under any operating conditions using many kind of test facilities. So, we will can evaluate and propose optimum mixing power as well as equipment specification for scaled-up or scaled-down model.

Test impeller fabrication service

This is a service to supply a custom-made mixing impeller suitable with customer's mixing vessel, so that test can be conducted in their own facility even in a substance difficult to take out from the company. We will propose impeller design optimized to customer's processes.



Testing device rental service

Do you want to test cutting edge mixing devices to your complete satisfaction? We provide rental mixing devices for testing at any time.

We can offer a diverse line-up of devices including the state-of-the-art NANOvisK fine emulsion production device that realizes nano range of droplets in emulsion and MAXBLEND, which demonstrates unique and ground breaking mixing characteristics.

Commercial tests (visiting tests)

If you want a test to be conducted by our mixing experts, or if you need data under various operating conditions, you can visit us and carry out this testing.

We will propose optimal flow patterns utilizing our wealth of experience and diverse simulation technologies.

In addition, we help you collect data necessary for determining the specifications of mixing devices from separable flasks to production machines, using our experimental facilities with our expert engineers in attendance.

Devices for rent



MAXBLEND



SUPERBLEND



NANOvisK

Cold test devices



20L scale

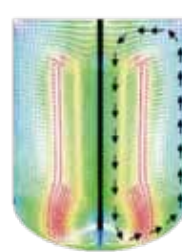


30L scale

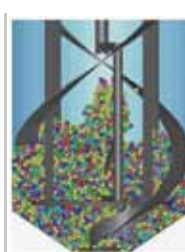


2500L scale

Simulation



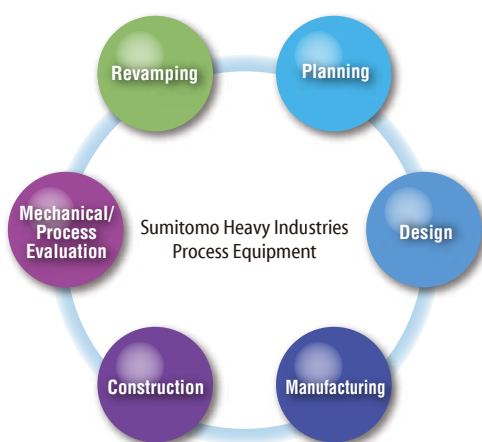
CFD method



DEM-MPS method

Plant Engineering

We will respond to customers diverse demands in all phases of plant construction, from initial planing stage to after service, based on our engineering,



Planning

Abundant experience

SHI-PE provides engineering capabilities based on the technology and experience accumulated over many years.

Basic design

Advanced engineering support

SHI-PE delivers high quality basic design so as to maximize the customer's own know-how.

Detailed design

Wide range of technical skills

SHI-PE has design specialists in equipment, piping, instrumentation, electricity, and architecture. And SHI-PE has capability to harmonize and unite these resources.

Procurement and manufacturing

Superior manufacturing skill and quality control

SHI-PE procures and/or manufactures equipment by making the best use of the SHI network.

Construction

Prominent capability in project execution

As construction professionals with abundant experience, SHI-PE staff members manage and execute project quality, deadlines, and safety.

Commissioning / operation

Unsurpassed capability in plant coordination/operation

SHI-PE assists to optimize plant operation through extensive experience.

After service

Substantial after service

SHI-PE proposes excellent maintenance and plant evaluation.