

Buy a Mixer from the Experts—Discover New Mixing Solutions!

How to Choose the Right Mixer? Rotary or Vibration?



There are many types of mixers, including bladed and bladeless designs, mixers with or without stirring rods, and gyroscopic mixers with both rotation revolution and planetary centrifugal mixer.

With so many options on the market, how do you choose the right one?

Understanding the differences, pros, and cons of each type is crucial to selecting the mixing equipment that best suits your needs.

Ideally, a single mixer should handle all kinds of materials, including inks, gold paste, solder paste, silicone, powders, liquids, chemical materials, mixed oils, high-viscosity coatings, cosmetic ingredients, pharmaceutical materials, and more.

Types of Mixers

Advantages of Rotary Mixers (Bladeless):

The biggest advantage of a bladeless mixer is the elimination of blade cleaning after mixing, saving time and cleaning costs.

Reduces replacement costs for blade consumables.

Advantages of gyroscopic mixers (Dual-axis):

The difference between single-axis and dual-axis mixers lies in the mixing operation. Single-axis mixers use a traditional single planetary 360-degree rotation, while dual-axis mixers add a second 360-degree rotating axis. Under the same formula and mixing conditions, dual-axis mixers offer better mixing efficiency.

High-speed, all-around mixing enhances material flow.

Advantages of Vibration Mixers (Vibration Principle):

Stable structure ensures no shaking or displacement during operation.

It's important to check if multi-dimensional vibration is provided to ensure difficult-to-mix materials are fully and evenly blended.

Advantages of Bladed or Stirring Rod Mixers:

Mimics hand-stirring mode, ideal for materials requiring slow mixing.

Recommendation: How to Choose a FINECAUSE Mixer?

■ Requiring a higher standard for "completely bubble-free" results

For stronger degassing, the vacuum version is available [GMFC700VS-TW-Planetary Centrifugal Vacuum Mixer / Vacuum Degassing Mixer](#)

Dual high-speed brushless motor drive system with stepless speed adjustment for both revolution and rotation

Revolution and rotation speeds can be freely set according to material characteristics, enhancing mixing efficiency and compatibility with different materials.

Dual-container design for flexible operation

Total volume: 700 mL × 2

Maximum filling volume: 500 mL per container (weight up to 700g)

Supports simultaneous processing of two containers, or single-container operation with a counterweight for flexible adjustment.

Mixing Modes (Single-parameter):

Allows setting a single revolution speed, time, rotation ratio, and vacuum level—ideal for simple mixing tasks.

Rotation can be set to Standard (forward) or Boost (reverse).

■ For Small Mixing Capacity:

If the volume you need to mix is not high, but the materials are mostly granular or highly viscous, then powerful high-speed mixing is required.

The [GMFC30A-S-TW Automatic Mixing Machine / Blending Machine](#) - Fully Automatic 720-Degree gyroscopic mixer [Small 6L] (Made in Taiwan) is your best choice:

- Small capacity 6L design, space-saving.
- Reduces load weight, increases machine speed, enhances efficiency, and shortens mixing time, boosting productivity.

- Digital control for precise mixing time management to ensure quality.
- Smart digital memory function to avoid operational errors.
- High-quality components: Taiwanese motor, Delta inverter, Weintek touch panel—ensuring stable quality.
- Ultra-high-speed mixing generates heat, improving material flow and mixing efficiency!

■ For Larger Mixing Capacity:

For larger capacity needs, a gyroscopic mixer is also available in large capacity:

The [GMFC30A-TW Automatic Gyroscopic Mixer](#) - Large 20L (Made in Taiwan) is more suitable for you.

- In addition to the above functions, this machine has no container restrictions and can be customized with special container fixtures according to container requirements. Whether it's glass bottles, ink cans, metal drums, plastic containers, or soft tube containers, this mixer can handle them all. The container fixture is replaceable, making this a multi-purpose machine that eliminates the need to switch containers.

- Different formulas can be set for various container sizes, with memory for up to 20 settings. The ink mixer offers six operational sequences, each independently programmable.

■ For Additional Features Beyond Mixing:

If you need more than just mixing functionality:

The [FCISM Vibration Mixer](#) is a value-for-money choice. Besides powerful vibration mixing, it also offers automatic vibration cleaning.

- Low-speed mode allows for cleaning. Simply place the items to be cleaned in a 1L container, add cleaning solution or detergent, and enjoy hands-free automatic cleaning.
- The FCISM High Speed Vibration Mixer/Vibration Ink Mixer uses eccentric high-speed oscillation to provide multi-dimensional vibration, ensuring even and thorough mixing of difficult materials—even coarse particle clumped silver paste mixes smoothly.

■ For Budget-Friendly Small Mixers:

If you're looking for an economical and practical small mixer:

The [F-001 Printing Ink Blender / Ink Adjusting Mixer](#) is your best choice!

It features a removable stirring rod, making cleaning easy and disassembly quick.

Besides ink mixing, it's ideal for ink conditioning—whether converting pad printing ink into screen printing ink or vice versa. This versatility helps make the most of your existing ink inventory and saves money!

Buy a Mixer from the Experts—Discover New Mixing Solutions!

No matter which type of mixing equipment you choose, we offer the highest quality products and services to ensure a more efficient and stable production process.

You can click on the product names above to view detailed product pages. If you need further information or want to apply for a trial, feel free to [contact us](#).