

3d mixer with three combined motions for various applications

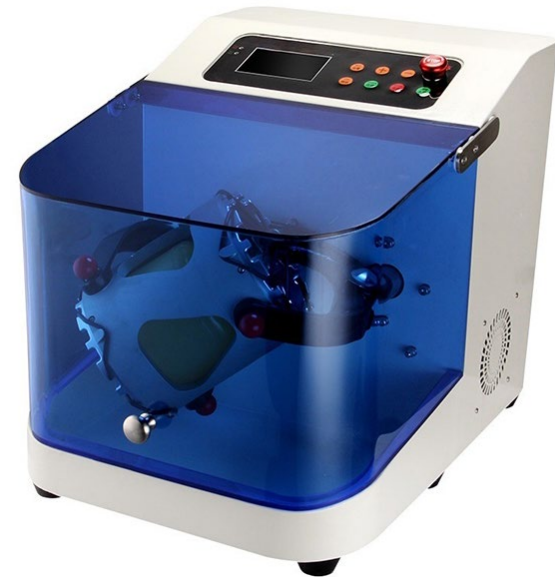
The core principle of 3d-mixer is through the container material in the rotation, translation and flip three kinds of movement, to avoid centrifugal force caused by the material segregation and stratification, so as to achieve high uniformity of the mixing effect.

3D Mixer

3d-mixer is suitable for those fields that have high requirements for mixing uniformity, such as chemical, food, electronics, light industry and so on.

Features

1. Intelligent operation interface: equipped with LCD touch screen, users can easily adjust the mixing time and speed. By presetting the time, the mixing process can be precisely controlled to avoid over-mixing.
2. Three-dimensional composite motion: the material in the mixing cylinder for translation, rotation, flip and other multi-directional three-dimensional movement, so that the material in the mixing process will not be affected by centrifugal force, effectively avoiding the gravity polarization, stratification and accumulation phenomenon.
3. Low noise operation: the equipment adopts sound insulation and noise reduction design, even in high load work, the operation noise is very low, to meet the strict requirements of the noise working environment.



4. Efficient mixing: through the principle of three-dimensional movement, the mixing effect is uniform and rapid. Compared with traditional mixing equipment, 3d-mixer can be completed in a shorter period of time a higher degree of uniformity of material mixing, and low energy consumption.
5. Safety protection design: when the operator opens the protective cover, the equipment will automatically stop running to ensure safety.
6. Fully sealed design: the mixing barrel and tank body adopts fully sealed design, avoiding material spillage in the mixing process, reducing environmental pollution and protecting the laboratory or production environment.
7. Easy cleaning and maintenance: simple structure of the equipment, easy to clean, long maintenance cycle, can improve efficiency and reduce the loss of equipment due to untimely cleaning.

Working Principle

The use of three-dimensional space composite movement, the different materials in a closed container. In this container, the material is not only a single rotation or vibration, but at the same time for translation, rotation and flip and other composite movements, which makes the material in a short period of time for efficient mutual flow, diffusion, mixing. This kind of movement helps to break the difference of specific gravity between materials and make the distribution of materials more uniform. Through the guidance of three-dimensional movement, the material will not produce centrifugal force effect in the mixing process, thus avoiding the phenomenon of material stratification, accumulation and segregation.

Advantages

1. High uniformity: due to the characteristics of three-dimensional movement, the material mixing uniformity is high, for different particles, density and morphology of the material, can efficiently complete the mixing task.
2. Energy-saving and efficient: the equipment mixing time is short, low energy consumption, suitable for production lines or batch work in the laboratory.
3. Safe and non-polluting: The fully enclosed design effectively avoids material leakage or dust pollution, ensuring a clean operating environment and personnel safety.
4. Low noise design: compared with traditional mixing equipment, 3d-mixer noise level is significantly reduced, more suitable for the working environment has strict noise requirements of the industry.
5. Wide applicability: the equipment is suitable for mixing a variety of materials, including but not limited to powder, granular materials, particles and liquid mixing, etc., to meet the needs of different fields.

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Model	SX10
Capacity	1 to 2L
Useful capacity	≤70%
Load weight limit	≤3kg
main shaft speed	120rpm
Power	0.37kw
Power supply	220Vac, 50/60Hz
Weight	67.5kg
Dimensions	644x474x397mm