

100L Double Planetary Mixer



The double planetary mixer is a specialized industrial mixing equipment designed for efficient blending, dispersing, and mixing of various materials. It consists of two blades or mixing agitators that rotate on their own axes while simultaneously orbiting a central axis. This unique movement pattern enables thorough and uniform mixing throughout the entire batch.

Here are the key aspects and features of a double planetary mixer:

1. **Mixing Principle:** The double planetary mixer operates based on a combination of planetary motion and high-speed agitation. The blades rotate on their own axes, generating intense mixing, shearing, and dispersing forces. At the same time, they revolve around the central axis, ensuring the materials are evenly distributed.
2. **Versatility:** Double planetary mixers are highly versatile and can handle a wide range of materials with varying viscosities. They are suitable for processing liquids, pastes, creams, gels, powders, and other types of substances.
3. **Uniform Mixing:** The dual movement of the blades, rotating and orbiting simultaneously, promotes thorough blending and uniform distribution of ingredients. This helps prevent the formation of clumps or unmixed pockets within the mixture, resulting in consistent and high-quality end products.
4. **High Viscosity Capability:** Double planetary mixers excel at handling materials with high viscosity or thixotropic properties. The intense shear forces and kneading action of the blades effectively break down agglomerates and ensure homogeneous mixing, even with highly viscous substances.
5. **Scalability:** Double planetary mixers are available in different sizes, ranging from small-scale laboratory models to large-scale industrial units. This allows for easy scalability to meet various production needs.

6. Additional Features: Some double planetary mixers may include additional features such as vacuum capability for desecration, jacketed vessels for temperature control, programmable settings for precise process control, and different discharge options for efficient product removal.

The double planetary mixer finds applications in numerous industries, including pharmaceuticals, chemicals, adhesives, cosmetics, food processing, and more. It is commonly used for producing products such as creams, lotions, ointments, pastes, paints, and specialty chemicals. The robust construction, efficient mixing action, and versatility make the double planetary mixer an essential tool for achieving consistent and high-quality formulations.

Technical Parameters

Valtage	220V
Power	45KW
Material Barrel Design Volume	650L
Material Barrel Working Volume	500L
Vacuum Degree	-0.08Mpa
Stitting Shaft Speed	0-55rpm suitable