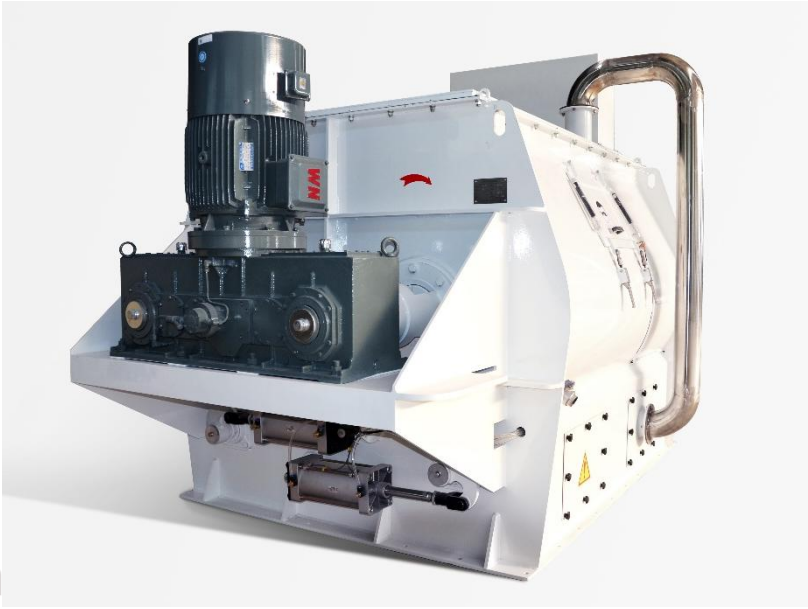
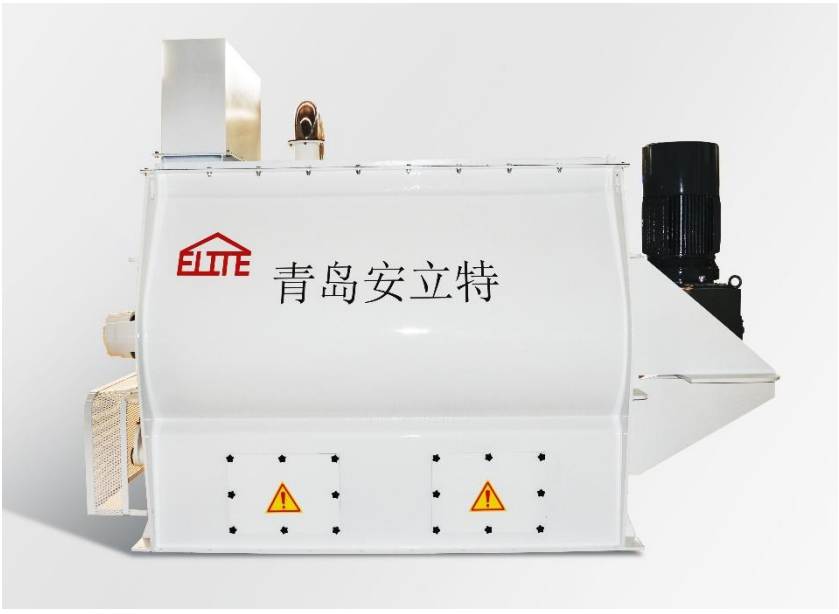
Double-shaft paddle-type dry powder mixer

Product Overview

The twin-shaft paddle-type dry powder mixer is an advanced mixing machine specifically designed for the efficient blending of dry powders and granular materials. It is widely used in industries such as chemicals, building materials, food, pharmaceuticals, and animal feed. By employing an innovative zero-gravity mixing principle combined with a precision mechanical design, this equipment achieves optimal mixing uniformity in a very short time, making it an indispensable core mixing machine in modern industrial production.





Technical Specifications

Model	SWZ2000	SWZ4000	SWZ5000	SWZ6000	SWZ8000
Volume	2200L	4200L	5500L	6500L	8500L
Mixing coefficient	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
Power（KW）	18.5KW	22KW	37KW	55KW	75KW
Mixer Weight（kg）	≈3500kg	≈5000kg	≈6200kg	≈8200kg	≈9500kg
Mixing speed（r/min）	43r/min-45r/min				
Mixing uniformity（%）	99.5%				
Mixing time（S）	150s-240s				
Unloading time（S）	15s-20s				
All mixer models can be customized with different materials (carbon steel, 304 stainless steel, 316 stainless steel, and other materials).					

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Key Benefits and Features of the Product

Compact Design, Space-Efficient

Small footprint: An innovative structural design reduces the equipment's footprint by more than 30%, making it particularly suitable for factory environments with limited space.

Easy installation: A modular design concept enables quick installation and commissioning, shortening project timelines.

Upgrade-friendly: Standardized interfaces are provided to ensure seamless integration with existing production lines and support future equipment upgrades and expansions.

Double Sealing, Zero Leakage

Mechanical seal + pneumatic seal combination technology: A proprietary double-seal system that effectively prevents material leakage during the mixing process

Compliant with environmental standards: Excellent sealing performance ensures a clean production environment and meets strict environmental standards

Minimized material loss: Precision-engineered seals reduce material waste and lower production costs

Wear-Resistant Materials, Exceptionally Long Service Life

High-quality wear-resistant materials: The mixing drum is manufactured from a special wear-resistant alloy steel, offering high hardness and excellent toughness.

Extended service life: Compared to standard materials, wear resistance is increased by 2–3 times, reducing the frequency of replacement and maintenance.

Long-term return on investment: The durable design lowers the total cost of ownership (TCO) and enhances the value of the equipment investment.

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Zero-Gravity Mixing, Superior Performance

Zero-Gravity Mixing Principle: Materials float in a weightless state within the mixing chamber, enabling comprehensive three-dimensional movement.

Mixing Uniformity as High as 99.9%: Achieves extremely high mixing uniformity in a short time, eliminating stratification.

Wide Range of Applications: Capable of processing complex material systems with significant density differences and broad particle size distributions.

Gentle Mixing: Minimizes damage to fragile materials and preserves their original properties.

Wide-Mouth Discharge for Efficient Cleaning

Wide-mouth discharge design: Discharge speed increased by 50%, significantly shortening production cycles

Residue-free design: Completely empties the material, eliminating the risk of cross-contamination

Easy to clean: Facilitates daily cleaning and maintenance, compliant with GMP and food-grade hygiene standards

Top-tier Power, Stable and Reliable

High-quality motor: Equipped with a high-efficiency, energy-saving motor from a renowned brand, delivering powerful performance with low energy consumption

Precision gearbox: Smooth transmission, low noise, and minimal vibration ensure long-term stable operation

Continuous operation capability: Supports 24-hour non-stop operation to meet large-scale production demands





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Applications

Chemical Industry: Pigments, coatings, plastic pellets, and premixed additives

Building Materials Industry: Dry-mixed mortar, joint compound, and insulation materials

Food Industry: Seasonings, milk powder, and protein powder blending

Pharmaceutical Industry: Pharmaceutical powders and raw material blending for nutritional supplements

Feed Industry: Production of premixes and concentrated feed

Why Choose Us?

Expert Technical Team: Over 10 years of experience in R&D of mixing equipment, providing customized solutions

Quality Assurance: Rigorous quality control system; ISO 9001-certified company

After-Sales Service: Global service network, 24-hour response, and lifetime technical support

Success Stories: Serving over 500 companies across more than 20 countries and regions

Customer Testimonial

1.

★★★★★ Purchasing Manager, a large mortar manufacturing plant (Vietnam)

Your production line has completely transformed our operations. From shorter project timelines to superior mortar quality, their technology is specifically designed to operate efficiently under real-world conditions.

2.

★★★★★ Production Supervisor, a putty powder manufacturing company (Uzbekistan)

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The installation and commissioning process went very smoothly. The machine performance has been highly reliable since day one, and the production capacity fully meets our project requirements. The technical support team was professional and responsive throughout.

3.

★★★★★ Business Director, a mortar company (Russia)

The entire production line operates very smoothly and is highly automated; we now use fewer workers than before and have achieved higher output than ever.

FAQ

1.

Q: What is the minimum order quantity for your products?

A: For larger equipment such as mixers, our minimum order quantity is one unit; for smaller products such as valves and fittings, the minimum order quantity ranges from 50 to 100 pieces. Please contact our sales representatives to confirm the specific minimum order quantity.

2.

Q: From which port do you ship?

A: Since our company is located in Qingdao, most of our shipments depart from the Port of Qingdao.

3.

Q: Are you a factory or a trading company?

A: We are a manufacturing company with our own factory; all our equipment is produced in our factory's production lines.

4.

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Q: What products can your mixers produce?

A: Our mixers can be used in a wide range of industries to produce various products.

Classified by industry and material type (dry or wet):

Dry materials:

Building materials industry: dry-mix mortar, putty powder, gypsum powder, cement, dry refractory castables

Food industry: flour premixes, starch, milk powder, powdered sugar, instant coffee powder, powdered beverages, chicken bouillon powder

Pharmaceutical Industry: Tablet granules, capsule filling powders, traditional Chinese medicine powders

Chemical Industry: Powder coatings, pigments, dyes, plastic additive premixes

Metallurgical Industry: Metal powders (iron, aluminum, copper, titanium) mixed with lubricants

Feed Industry: Complete compound feed, premixes, concentrates

Wet Materials:

Building Materials Industry: Concrete, wet mortar, self-leveling mortar, foam concrete slurry, refractory slurry

Coatings/Ink Industry: Water-based/solvent-based coatings, emulsion paint, printing ink, UV ink

Adhesives/Sealants Industry: Epoxy AB adhesives, polyurethane adhesives, silicone sealants, hot-melt adhesives

Cosmetics/Personal Care Industry: Shampoo, body wash, face cream, lotion, toothpaste, makeup pastes

Pharmaceutical Industry: Ointments, creams, gels, oral suspensions, injectable emulsions

Food Industry: Tomato sauce, mayonnaise, chocolate paste, jam, honey crystallization treatment, meat paste

Rubber/Plastics Industry: Compounded rubber, PVC paste resin, color paste, masterbatch wet premixing

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Battery Industry: Lithium battery anode and cathode slurries (wet vacuum mixing)

Environmental Protection Industry: Fly ash solidification slurry, sludge stabilization slurry, water treatment chemical solutions

5.

Q: Can your mixers be customized to meet my specific needs?

A: Yes, all our mixers can be customized. We will tailor them to your specific requirements based on the raw materials you use, the products you manufacture, and your desired output.

6.

Q: How often do the mixing blades in your mixers need to be replaced? Is it easy to obtain replacement parts?

A: In theory, replacement is recommended every six months to a year, though there is no fixed replacement schedule. The raw materials used in production vary, and different materials cause varying degrees of wear on the blades. Additionally, the daily operating hours of the mixer differ. Therefore, we recommend checking the wear on the blades through the inspection window to determine the replacement frequency. All mixing blades in our mixers are made of wear-resistant materials and are reinforced with wear-resistant welds, resulting in a longer service life than standard mixing blades on the market. The mixing arms and blades inside the mixer are all secured with bolts, making it very convenient to replace parts.

7.

Q: There are many types of mixers. How should I choose the right one?

A: Generally, horizontal mixers are used for mixing powders, granules, pastes, and high-viscosity materials; vertical mixers are used for low- to medium-viscosity liquids, slurries, and suspensions; disc mixers are primarily used for high-hardness and highly abrasive materials; and ribbon mixers are commonly used for powders, granules, pastes, and high-viscosity materials.

8.

Q: Aside from equipment sold separately, do you offer design, manufacturing, and installation services for complete production lines?

A: Yes. We have customers in over 20 countries worldwide who use production lines that we have designed, manufactured, and installed.

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9.

Q: What is the measurement accuracy of this precision measurement system?

A: Typically ±0.2%. (Higher measurement accuracy can be customized upon request.)

10.

Q: How do I choose the right type of packaging equipment for my products?

A: When selecting packaging equipment, the following factors should be considered:

1. Product characteristics: including product dimensions, shape, weight, and material

2. Packaging format: such as bagging, boxing, bottling, or canning

3. Production capacity requirements: Determine the equipment speed based on the production line’s output needs

4. Level of automation: Choose between fully automatic, semi-automatic, or manual equipment

5. Budget range: Select the equipment with the best cost-performance ratio based on your investment budget

6. Space constraints: Consider equipment dimensions and workshop layout requirements

11.

Q: How can we verify that the quality of equipment packaging meets standards?

A: Packaging quality verification primarily includes the following aspects:

• Sealing test: Checking the integrity of the packaging seal

• Visual inspection: Ensuring the packaging appears neat and free of wrinkles

• Measurement accuracy: Verifying that weighing or measurement meets standards

• Production efficiency: Confirming that the nominal production speed is achieved

• Pass rate statistics: Calculating the pass rate after continuous production of a certain quantity

• Stability testing: Assessing stability during 8 hours of continuous operation

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