



Trough Mixer

Operating on a single-shaft design, these blending machines use a U-shaped horizontal trough to hold and process materials. The shaft is fitted with heavy-duty Z-shaped blades, which is why they are often called Z blade mixers or horizontal trough-type mixers.

Anxine's trough mixing machines are built with cGMP-compliant stainless steel for hygienic operation and easy cleaning. Available in sizes from 10L to 500L, our units feature an effortless large-angle tilt-discharge system that ensures rapid, complete emptying.

Catalogs

Small Volume CH Type Powder Mixer Blender	1
Big Volume CH Type Powder Mixer Powder Blender	2



Small Volume CH Type Powder Mixer Blender



The CH-series trough mixers, including CH10 and CH20, belong to the horizontal mixer. They are designed for gentle and efficient blending of dry powders and granules, ideal for precise powder blending. With 10L and 20L capacities, they are well-suited for lab-scale production or small-batch formulations. They are useful in industries such as pharmaceuticals and R&D.

Equipped with an internal paddle and turning trough design, these mixers use dual motion to ensure better blending



performance. While the blade stirs continuously, the hopper can tilt during discharge, making the mixing process both efficient and easy to control. This structure enhances uniformity and reduces leftover material.

Features

- ✓ **Dual mixing motion.** A rotating paddle combined with a tilting hopper improves blending efficiency.
- ✓ **Small working area.** Both models are lightweight and compact, suitable for tight workspaces or mobile setups.
- ✓ **Easy operation.** Simple controls and manual discharge make the workflow beginner-friendly.
- ✓ **Fast cleaning.** The trough can tilt up to 115°, allowing easy access to all contact surfaces.
- ✓ **Stable speed.** A fixed 24 r/min shaft speed provides steady performance across powder types.
- ✓ **Durable drive system.** It is powered by a 0.55kW motor and belt-driven reducer for smooth, long-term operation.
- ✓ **Low maintenance.** Easy design requires less maintenance. You only need to check the oil, belts, and bearings every three months.

Technical Parameters

Model	CH-10	CH-20
Material tank capacity	10 L	20 L
Motor power	0.55 kW	0.55 kW
Paddle shaft speed	24 r/min	24 r/min
Maximum flip angle	115°	115°
Machine weight	40 kg	71 kg
Dimensions	600mm×325mm×540mm	750mm×380mm×650mm

Big Volume CH Type Powder Mixer Powder Blender



The CH-series horizontal powder mixers are designed for consistent dry mixing in pharmaceutical, food, and chemical industries. With capacities ranging from 50L to 500L, these machines support flexible batch sizes. Their tiltable hoppers and automatic discharge function help speed up the workflow while minimizing manual handling. Whether for small factories or mid-scale operations, this series provides a practical solution with steady performance.

Each CH mixer uses a horizontal paddle system powered by a belt-driven motor and reducer. As the paddles rotate, materials are rolled repeatedly inside the hopper to achieve even mixing. The fixed 24 r/min speed ensures predictable output across all models, while the simple mechanism makes the machines stable during operation and less prone to failure.



Features

- ✓ **Multiple capacity choices.** From 50L to 500L, the series covers a wide range of mixing needs across different production scales.
- ✓ **Fixed rotation speed.** All models operate at a consistent 24 r/min for batch uniformity.
- ✓ **Electric discharge system.** A dedicated motor powers the discharge. It reduces labor and spillage.
- ✓ **Strong drive structure.** A reliable motor and speed reducer ensure stable and long-term paddle movement.
- ✓ **Simple control panel.** It is equipped with clearly labeled buttons for each function. This greatly improves ease of use and reduces training time.
- ✓ **CGMP-compliant design.** All contact surfaces are stainless steel, supporting sanitary production environments.
- ✓ **Compact design.** Despite their volume, the machines are space-saving and easy to integrate into existing setups.

Specifications

Model	CH-50	CH-100	CH-150	CH-200	CH-500
Volume	50L	100L	150L	200L	500L
Main Motor Power	1.1 kW	2.2 kW	3 kW	4 kW	7.5 kW
Speed	24 r/min				
Weight	220 kg	250 kg	550 kg	600 kg	680 kg
Dimensions	2,300x910x2,050mm	2,800x1,000x2,280mm	3,000x1,100x3,100mm	3,200x1,200x3,350mm	3,400x1,300x3,550mm



info@anxine.com

0086 137-5776-3288

<https://www.anxine.com>

DaoHang Rd. Wenzhou, Zhejiang, China, 325200

Wenzhou Anxine Machinery Co., Ltd.