

Large Vertical Mixer

Instruction Manual



Dongguan Dingyuan Industry Co.,Ltd

Tel: +86-0769-83503283

Fax: +86- 0769-83984962

Email: info@dgdinyuan.com

Website: www.dgdinyuan.com

Address: Building B First Floor No.3 Xinglong 2nd Road Xiaxu Village Changping Town

Dongguan City Guangdong, China

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1. Brief introduction

The vertical mixer is specially designed and manufactured for the plastic granulation industry. This series of machines have the advantages of automatic timing, over-current protection, low power consumption, convenient operation, low failure rate and uniform mixing effect. It can ensure the stability of the physical property and color of each batch of plastic granules. It can widely used in plastic granulation, plastic modification, recycled plastics, and plastic color masterbatch industries etc. It can be produced various capacity mixing barrels, and install heating and automatic loading devices according to customer requirement.

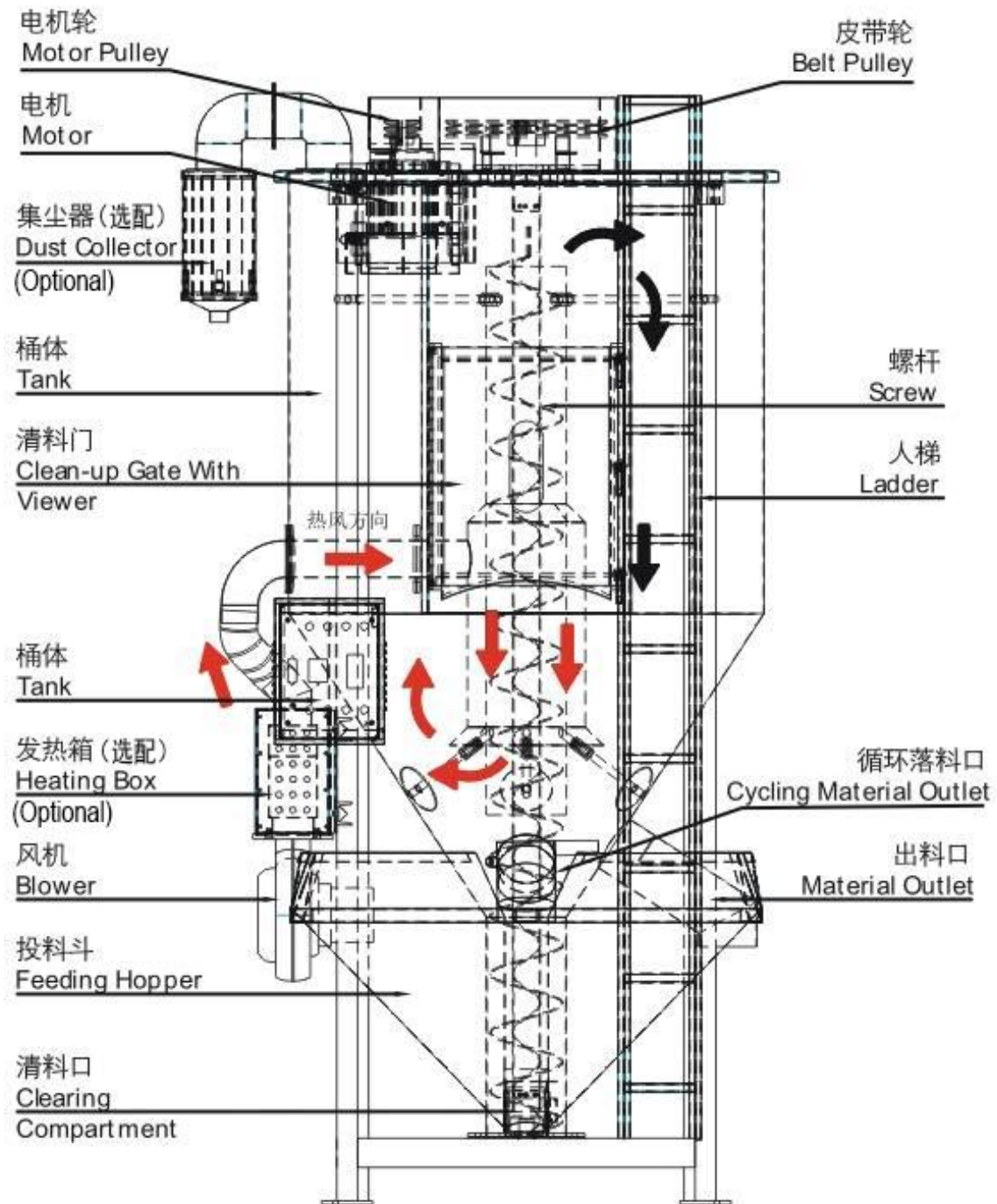
2. Electric control box part

- A. Electric control box*1 pcs
- B. AC contactor*1 pcs
- C. Heat protector*1 pcs
- D. Digital display timer*1 pcs
- E. Button switch*2 pcs
- F. Power Indicator*1 pcs

3. Main structure and features

3.1 Main structure:

The vertical mixer is composed of barrel body, barrel cover, conveying pipe, The spindle core (screw) base, material outlet (or heating device), automatic feeding device and other components.



3.2 Features:

3.2.1 The barrel body is generally made of stainless steel plate rolled round, the inner surface is hard and smooth, so it has the advantages of wear resistance, corrosion resistance, and convenient cleaning.

3.2.2 The conveying pipe is made of 2~3mm stainless steel plate with a reinforcement device, which is sturdy and durable without deformation.

3.2.3 The spindle core is the screw, mixer below 10 tons are generally made by 89*6mm stainless seamless pipe diameter 5m lathe after straightening and equipped with imported bearings, which can guarantee no deformation for 5 years under correct use conditions.

3.2.4 The base is made of 16 mm steel plate with butter nozzle. The user should perform daily maintenance according to the maintenance content.

3.2.5 The material outlet is made of #304, 2mm lens panel, which has high brightness and high smoothness to ensure smooth discharge. Material outlet knife is made of 2mm stainless steel, which has durable features.

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4. Machine installation and instructions

4.1 Installation:

The installation of this series of machines adopt vertical and vertical parallel mixing way. The machine generally has a height of 3-5.5 meters. It is best to install this machine with a forklift or crane to avoid accidents or damage to the barrel and cause deformation.

4.1.1 This machine uses a 3 phase 415V power supply and please connect the ground wire before using.

4.1.2 The motor must run in the direction indicated by the arrow.

4.1.3 After the power line is connected, run with no load first. If running in the reverse direction, you can adjust the position of the 2 fire lines.

4.1.4 The machine uses national standard channel steel as the column. The bottom of each channel steel is equipped with a drilled square iron base. The user should install the machine steadily before fixing it with explosive screws to avoid vibration when the machine is working.

4.2 Instructions:

4.2.1 After the proper installation, test the machine before using, check the running direction of the motor, whether there will be abnormal sound and running smoothly.

4.2.2 After no load testing when everything is normal, you must check and confirm the following inspection work before feeding.

1) Clean machine inner wall, ensure there are no sundries contaminate raw materials.

2) The upper and lower rotating bearings of this machine have been filled with butter when leaving the factory, but the customer should maintain it according to its usage. In principle, it needs to be filled with butter once a month.

3) Confirm the material outlet knife whether in the close position.

4) Confirm the access port whether in the close position.

4.2.3 After the above-mentioned inspection work, you can feed the materials. The machine is equipped with protective cover in the hopper. It is mainly used to protect the safety of the operator and isolate the plastic block material over 3X3cm.

4.2.4 After feeding, you can start the motor and set the mixing time according to the specific gravity of different raw materials.

1) The recommended mixing time for granules material: 30~60 minutes;

2) The recommended mixing time for crushed material: 60~90 minutes.

4.2.5 Do not fill the barrel, its best to be 90% full, so as not to affect the mixing quality.

4.2.6 The raw materials can be discharged from the material outlet after mixing, and the raw materials that cannot be discharged can be removed from the cleaning port at the bottom.

4.2.7 Use an air gun to clean the material at the cleaning port. It is strictly forbidden to clean the residual material by hand when the machine is running.

4.2.8 If mixing materials with different specific gravity, please increase the mixing time appropriately.

4.2.9 If you need to change other color(material), you need to clean the mixing barrel. Please use an air gun and a clean mop to clean up. It is strictly forbidden to use water to rinse directly to prevent the base from rusting.

4.2.10 The machine is out of use for a long time, please turn off the main power.

5. Warning

- A. Please keep caution when climbing the ladder.
- B. It is strictly forbidden to approach the cleaning port by hand when the machine is running.
- C. It is strictly forbidden to clean the inner wall of the machine directly with water.
- D. Please add butter every 90 days. The parts: Chassis center point bearing, barrel cover belt positioning bearing.

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