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PROFESSIONAL PRODUCTION PELLET MACHINERY



Rotary Drum Drying Machine

Brand: Richi

Certification: CE & SGS & ISO

Application: Drying Of Sawdust, Food, Building Materials

Fuel Options: Bark, wood pellets, wood chips, wood waste, natural gas, LPG, coal, etc



Overview

Henan Richi Machinery Rotary Drum Drying machine is a type of industrial dryer employed to reduce or minimize the liquid moisture content of the material. The dryer is made up of a large ,rotating cylindrical tube usually supported by steel beams . The dryer slopes slightly so that the discharge end is lower than the material feed end in order to convey the material through the dryer under gravity.

It has advantages of low noise, fast delivery, reasonable design, high efficiency, low energy consumption and easy to operate. This rotary drum dryer can be widely used in different fields, such as bio-mass pellet industry,

feed pellet industry, building materials drying, animal manure drying and so on.

Working Principle of High Output Fertilizer Drying Machine

This fertilizer rotary drum drying equipment uses hot air to dry the materials. From the high side as the rotary drum dryer has an angle, the wet materials are entered into the hopper of the rotary drum dryer by belt conveyor or bucket elevator. In the rotary body, the materials are mixed with hot air which enters into the rotary body from the lower side. The materials are lifted by the lifting plate on the inner side to make the materials and the hot air mix completely which improve the drying efficiency. while the fertilizer drying machine rotating, the well-dried materials are collected from the other side. According to the need, the hot air can enter the rotary drum drying machine from the feeding side or discharging side.

Application of Fertilizer Rotary Dryer

rotary dryers are among the most versatile available for drying fertilizer, and are capable of handling almost any bulk solid material regardless of its conveyance and handling characteristics.

1. Suitable for organic fertilizer & compound fertilizer: organic & compound fertilizer granules, livestock manure waste, poultry manure, such like sheep manure, pig manure, chicken manure, cow manure etc. and compost, sludge.
2. Suitable for bio-mass pellet industry: wood sawdust, wood chips, wood shavings, agricultural straw
3. Suitable for feed and agriculture industries: straw, grass fish meal, leaves, food factory waste, corn sauce
4. Suitable for building materials drying, metallurgy and chemical industry,

mining industries: respectively, sand, cement, ores, slag, coal, metal power, clay, kaolin

5. Suitable for drying powder and granular materials: phosphorus slag, crystals.

Features

1. New type , Drum dryer will dry the moisture of materials from 55% to 15%
2. Diameter: 2.4m, length: 10m; 3 Layer
3. Capacity: According kind of raw materials and moisture of materials
4. Rotate speed 3-8 r/min
5. Inlet temperature $\leq 700^{\circ}\text{C}$



Parameter

Model	$\phi 1200 \times 120000$	$\phi 1500 \times 150000$	$\phi 1800 \times 180000$	$\phi 2400 \times 100000$	$\phi 2400 \times 100000 \times 3$
Cyclone	$\phi 800 \times 2$	$\phi 800 \times 2$	$\phi 1000 \times 2$	$\phi 1000 \times 2$	$\phi 1000 \times 2$
Application	Applicable to low-temperature continuous drying material in large quantity, such as sawdust , wood chips ,grass ,dregs and etc				
Fuel Options	Bark, wood pellets, wood chips, wood waste, natural gas, LPG, coal, etc				