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Stainless Steel Colloid Mill Machine

Stainless steel colloid mill machines are powerful tools used in the food processing and pharmaceutical industries. These machines are designed to grind, disperse, and emulsify materials into fine particles. They consist of a rotor and a stator that work together to create high shear forces that break down materials to smaller sizes, resulting in a smooth and consistent product. Stainless steel is an ideal material for making colloid mill machines. Its durable and corrosion-resistant quali...



Peanut Butter Tomato Sauce Chili Paste Colloid Mill

A colloid mill is a form of grinding and mixing machine that is primarily used in the food, pharmaceutical, and cosmetic industries. The machine is designed to reduce particles to the submicron range for the production of suspensions, emulsions, and colloid solutions. It utilizes a high-speed rotor that rotates at around 3000 RPM, which interacts with a stationary stator system. This rotor-stator interaction creates a shear and impact zone, which reduces the size of the



JMF Peanut Colloid Mill

The basic principle of the stainless steel colloid mill is through the relative linkage between the fixed teeth and the movable teeth at high speed. In addition to the motor and some parts of the colloid mill, all the parts in contact with the material are made of high-strength stainless steel.



JML Vertical Colloid Mill For Peanut Butter

The colloid mill is driven by a motor through a belt drive to drive the rotating teeth (or rotor) and the matching fixed teeth (or stator) to rotate at a relatively high speed, one of which rotates at high speed, the other is stationary

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Stainless steel is an ideal material for making colloid mill machines. Its durable and corrosion-resistant qualities make it suitable for use in industrial applications where hygiene is a top priority. Stainless steel is also easy to clean and maintain, making it ideal for use in food processing and pharmaceutical applications where cleanliness and sterility are crucial.

The colloid mill machine can process a variety of materials, including nuts, seeds, fruits, vegetables, and dairy products. It is used to make peanut butter, almond butter, cashew butter, tahini, and other nut butters. It can also make mayonnaise, salad dressings, sauces, and emulsions. The machine is also used in the pharmaceutical industry to make ointments, creams, and other products.

The colloid mill machine works by feeding the material into the hopper, which is then transferred to the rotor and stator assembly. The rotor rotates at high speed, while the stator remains stationary. The material is subjected to high shear forces as it passes through the tiny gap between the rotor and stator. This shearing action breaks down the material into smaller particles, resulting in a smooth and consistent product.

Stainless steel colloid mill machines come in different sizes and capacities to meet different requirements. Small-sized machines are suitable for use in laboratory settings, while larger machines are designed for use in industrial-scale production. They can be used as standalone machines or integrated into a production line.

In conclusion, stainless steel colloid mill machines are versatile tools that play a vital role in the food processing and pharmaceutical industries. They are durable, easy to clean, and provide consistent results, making them a popular choice for businesses looking to produce high-quality products. The use of stainless steel ensures that the machines meet the highest hygiene standards and are suitable for use in sterile environments. With the right machine and process, these mills can help businesses produce products that meet the needs of their customers.



Split type colloid mill



MODEL	MotorPower (kw)	Motor RPM (r/min)	Mircon um	Output (t/h)	Mill Diameter (mm)
JMF-50	1.5	2900	2-40	0.01-0.1	50
JMF-65	2.2	2900	2-40	0.02-0.5	65
JMF-80	3	2900	2-40	0.3-1	80
JMF-100	5.5	2900	2-40	0.5-2	100
JMF-120	7.5	2900	2-40	0.5-3	120
JMF-140	11	2900	2-40	0.5-4	140
JMF-200	18.5	2900	2-40	1-10	200

Vertical type colloid mill



MODEL	MotorPower (kw)	Motor RPM (r/min)	Mircon um	Output (t/h)	Mill Diameter (mm)
JML-50	1.5	2900	2-40	0.01-0.1	50
JML-65	2.2	2900	2-40	0.02-0.5	65
JML80	3	2900	2-40	0.3-1	80
JML-100	5.5	2900	2-40	0.5-2	100
JML-120	7.5	2900	2-40	0.5-3	120
JML-140	11	2900	2-40	0.5-4	140
JML-200	18.5	2900	2-40	1-10	200

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