

XianFeng Barrel Type Air Flow Screen

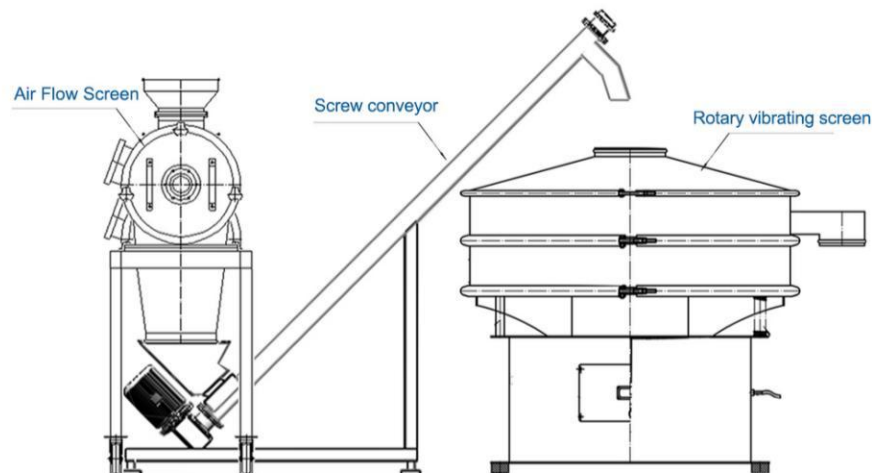
Fine powder screening expert barrel type airflow sieve



Baobab, as one of the oldest and unique tree species on this earth, is distributed in the African continent, Madagascar, Australia and other places, among which Madagascar retains a large baobab forest. Scientists have found that the baobab has more than 300 uses. The fruit of the African baobab tree is called a superfruit. The calcium content is more than 50% higher than that of spinach, and the vitamin C content is three times that of a single orange. The flesh of the fruit can be eaten raw, and the juice can be drunk as a tea. There are many seeds wrapped in the pulp, the oil content of the seeds is as high as 15%, and the oil extracted is light yellow, which is the best edible oil. During several times of great famine in African history, this "natural bread" saved the lives of thousands of hungry people. For this reason, people call it "the tree of life".



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Baobab pulp powder production process

The barrel-type airflow screen produced by Xianfeng Machinery Factory can perfectly separate the fibers, seeds and flour in the baobab fruit.

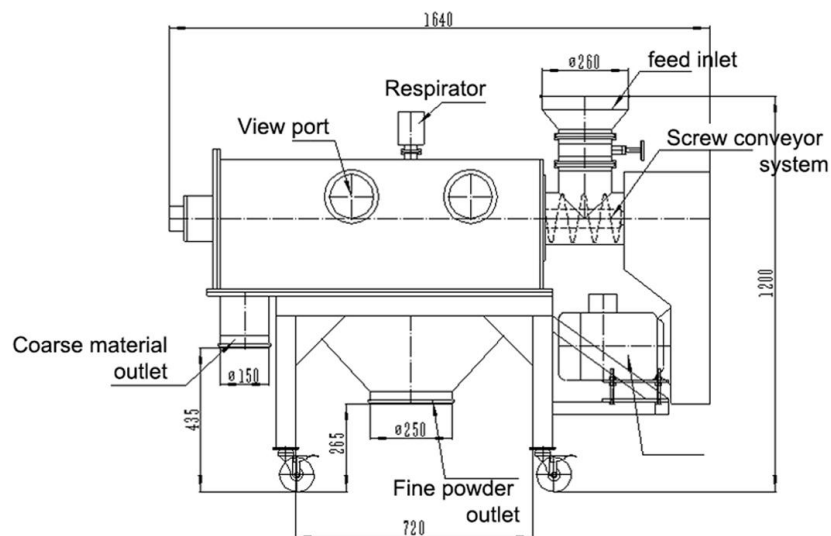
We use two machines to process the baobab pulp.

The pulp is crushed by an airflow sieve, and coarse powder containing impurities is obtained after crushing. The coarse powder is sent to the feed port of the rotary vibrating screen through the screw conveyor, and the rotary screener performs fine filtration. This way we get a fine baobab powder.



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Work Process

■ The sieve mesh of the barrel air screen is cylindrical and placed in the body. After the material passes through the screw conveying system, it enters the mesh cylinder after being mixed with the airflow.

■ The rotor blades in the mesh cylinder rotate and hit the material, and the material is simultaneously subjected to centrifugal force and cyclone propulsion, and is sprayed through the screen.

■ The fine powder comes out through the fine powder port, and the coarse material is discharged from the coarse material port.



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Features

- After testing on 60-80 mesh baobab powder, 120-180 mesh light calcium carbonate, 300 mesh heavy calcium, 400 mesh active calcium, 300 mesh hawthorn powder, 320-500 mesh zinc powder, 500 mesh iron oxide and other materials, a better screening effect was obtained.
- The test results show that this screen machine produces about 1 ton per hour per square meter of screen area.
- The sieving accuracy is 95%. The air dust content is less than 10mg/m³.
- The barrel type airflow sieve is suitable for the screening and classification of various powders from 60 mesh to 600 mesh.
- Its high screening efficiency, large output, continuous operation, and good dust-proof performance make it possible to perform high-precision screening that is difficult for other screening machines.

Technical Parameters

Model	XFQL-18650	XFQL-25850	XFQL-30100	XFQL-50130
Air flow volume(m ³ /h)	240~1100	270~1800	300~2500	460~4900
Screen mesh(mesh)	60~600	60~600	60~600	60~600
Feed particle size(mesh)	Below 40	Below 40	Below 40	Below 40
Screen power(kw)	3	5.5	5.5	15
Spindle speed(r.p.m)	960	960	960	960
Sieve size (mm)	Φ180	Φ250	Φ300	Φ500
Overall height (mm)	1200	1450	1730	2300

XianFeng Circular Vibrating Screen

Fine powder screening expert circular vibrating screening



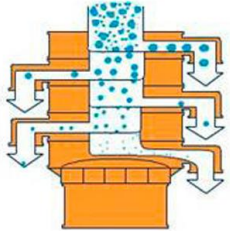
Product introduction

The rotary vibrating screen uses an upright motor as the vibration source.

Eccentric blocks are installed at the upper and lower ends of the motor to convert the rotary motion of the motor into horizontal, vertical and inclined three-dimensional motion, and then transmit this motion to the screen surface to spread the material on the screen surface.

It has the advantages of long material movement route and high screen surface utilization rate, and can perform fine screening of materials.

By changing the angle and weight of the upper and lower eccentric blocks of the vibration motor, the vibration motor can generate different vibration forces, change the vibration amplitude in the horizontal or vertical direction, and then change the efficiency of screening.



Classification screening

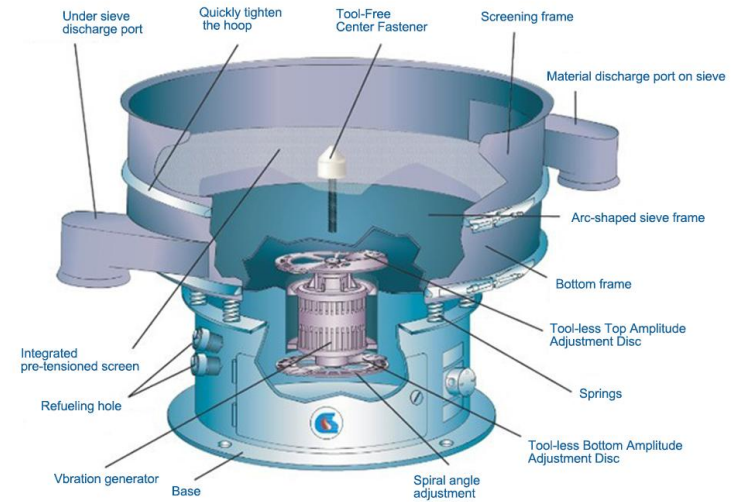


Solid-liquid separation



Removal of impurity

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Product Features

The rotary vibrating screen has a small size and a wide range of applications for fine screening equipment. It can effectively sieve particles and powders below 150 mesh.

It can also effectively screen 500 mesh liquid materials. Can be widely used in food, medicine, chemical industry, metal metallurgy industry.

Model NO.	Screen Dia. [mm]	Screen Decks	Max. feed particle size [mm]	Product particle size [mm]	Vibration Frequency [r/min]	Power [Kw]	Capacity [kg/hour]
XF400	360	1~5	20	0.025~20	1440	0.25~0.55	200
XF600	560	1~5	20	0.025~20	1440	0.25~0.55	200
XF800	760	1~5	20	0.025~20	1440	0.55~0.75	500
XF1000	950	1~5	20	0.025~20	1440	0.75~1.1	800
XF1200	1150	1~5	20	0.025~20	1440	1.1~1.75	1200
XF1500	1450	1~3	20	0.025~20	1440	1.5~3	1600
XF1800	1750	1~3	20	0.025~20	1440	3~4.5	2000