

Centrifugal Separator

——Revolution of aluminum drawing oil filter



Overview: Centrifugal Separator is widely used in the field of wire and cable machine, especially drawing machine, to solve the aluminum wire drawing oil pollution.

Centrifugal separator feature

Separation of high speed, separation of high precision, save the cost of the replacement of oil, ensure the oils within a reasonable range.

Easily operation, workers labor intensity is low. The average maintenance time less than 10 minutes at a time.

An input, no material cost for using low cost.

According to the aluminum content set equipment work time, which reflect the use of high efficiency, environmental protection, low energy.

Centrifugal machine description

Centrifuge is to separate suspension of solid particles and liquid. Two kinds of material density in the emulsion is different, and no each combination or separation. Using high-speed rotating cylinder which is called (also called rotor) axis around itself. Suspension after entering drum, be driven and drum with

rotate rapidly, liquid flowing under the action of the centrifugal force, aluminum powder condensation.

Centrifuge used liquid under the action of centrifugal force, the oil to the middle, impurities to the characteristics of scattered around, Make the impurities separated from liquid.

Don't have to support the cost of production caused by frequently replacing high drawing oil. Depending on the oil pump driven pressure to provide the driving force, revolving speed up to 4200rpm, which separate metamorphic residual impurities, sludge, carbon black, colloid, mixed metal particles etc. The degree of separation of aluminum powder dry will beyond your imagination.

The whole machine adopts adjustable working pressure, consist of centrifuge, oil pump, electrical, instrumentation, etc., forming machine in a frame structure. The machine adopts four-wheel brake, to ensure the safe operation of the equipment in the scope of 0.5 square meters.

Fnier centrifuge advance the work efficiency and the advanced technology, improve product percent of pass and save energy for production security for clients in the drawing industry.

The feature of processing aluminum wire drawing oil

Reducing the stretch oil viscosity and avoiding the abrasion of wire-drawing die caused by high temperature because of high viscosity and uneven lubrication when aluminum wire in wire drawing die. Beyond, it can also avoiding the microstructure, deformation, easily fracture, burr etc. caused by over temperature.

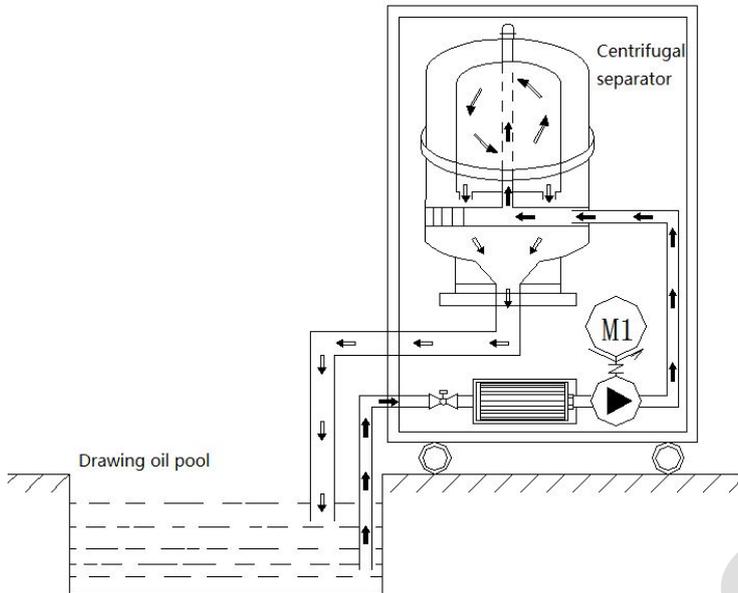
High viscosity of the aluminum powder residue and adsorption on the surface of the aluminum wire, which influence sequence process such as annealing, painting, etc. Uneven lubrication make tension control is not good, not only make the wire lose the light but also affect a number of performance of the wire. From its appearance, the drawing line burnish is poorer. From its performance, line of elongation, elastic resilience, flexibility, thermal shock are affected.

Wire drawing machine and wire drawing die was caused by wire drawing oil viscosity increases by 90%. The wire drawing oil processed by centrifuge keeping aluminum powder content less than 0.1%. It Secure the wire drawing oil viscosity in the reasonable range of operation. Low viscosity to ensure operation of wire drawing oil is easier to control in a certain temperature range.

The aluminum through centrifuge separation nearly dry state (see map) without wearing parts and

consumables etc. Separation of high precision wide range. Without any replacement parts.

Processing process



Application method

Put into the tubing in wire drawing oil at the bottom of the pool of about 300 mm. According to the situation of the wire drawing oil contamination to set the running time. Start the centrifuge button. Circulation processing wire drawing oil containing aluminum powder.

After processing, put the return pipe on the upper wire drawing oil tank (tank). Let the oil into the oil pool directly.

Open the general power supply of separator, set the running time according to press wire drawing oil pollution level.

Automatic stop and alarm after arrived at run time or press the stop button.

This machine is equipped with LCD or knob type time relay.

The processing characteristics and effect

Install circulation processing wire drawing oil pool beside the wire, which reduce the loss caused by the size of aluminum powder in the wire drawing oil pool and the viscosity increases lead to production

downtime.

Take out the aluminum powder directly, reduce the wire drawing oil loss, separate suspended solids, colloid and pitch solids.....

Aluminum wire drawing in high cleanness-degree wire drawing oil, the wire drawing surface is clean and no burr.

Save the oil when clearing away the wire drawing oil from the tank. The pollutants are dry after processed by centrifuge.

Comparing with free settling, centrifuge processing speed is as high as dozens Of or even hundreds times.

Without the complex process of heating, stirring, quiet place, clean up aluminum wire drawing machine oil groove.

Separation accuracy can reach below 5 microns, separating rate of impurity $> 98\%$. The average life of oil can prolong 3~8 times.

Maintenance and in addition to the aluminum powder will spare about 8 minutes.

