

▶ Belt Zinc Powder Feeder

Principle

It is a kind of special equipment used for zinc powder feeding through the belt in the zinc powder replacement process of extraction of gold by cyanidation.

Features

The equipment consists of belt feeder and mixing barrel, and is used to complete the zinc powder feeding and mixing operation of pregnant solution and zinc powder.

The zinc feeding amount every 8h can be laid evenly on the surface of the belt one time, and continuously and automatically added into the mixing tank for 8h after startup.

It can reduce the labor density and reduce the loss of zinc powder.

Application

It is applicable in the zinc powder replacement process to fill the zinc powder evenly and continuously into the mixer filled with pregnant solution. In addition, it is also widely used for continuous and even feeding of powder materials in the industries such as mineral processing, chemical, pharmaceutical and food.

Technical Parameters

Belt Type	Rubber Belt Width (mm)	Central Distance of Roller (mm)	Rubber Belt Speed (mm/min)	Valve Open/ Close Times (times/min)	Motor Model	Motor Power (kW)	Weight (kg)
250×1800	250	1800	3.5	28	Y90S-6	0.75	482

▶ Automatic Zinc Powder Mixer

Technical Parameters

Model	Diameter of Hopper (mm)	Power Driven (Yes or No)	Weight (kg)
ZXH-50	500	No	60

▶ Disc Zinc Powder Feeder

Principle

The structure and working principle of the disc zinc powder feeder is basically as the same as that of the common disc feeder, and is mainly composed of 3 parts including zinc powder hopper, disc and transmission device.

Features

Because of the less amount of the zinc powder, the disk diameter is generally 140~170mm and the rotating speed is about 1r/min. It has the feature that the zinc powder feeding amount can be adjusted according to the capacity and the gold grade of the solution. The equipment is driven by the motor through the V belt and the secondary worm gear reducer, drives the disc on the central shaft to rotate. The powder materials fed into the hopper fall down to the disc by the gravity, and are discharged from the outlet by the scraper as the disc rotates.

Application

It is applicable to the zinc powder replacement process to fill the zinc powder evenly and continuously into the mixer filled with pregnant solution. In addition, it is also widely used for continuous and even feeding of powder materials in the industries such as mineral processing, chemical, pharmaceutical and food.

Technical Parameter

Disc Type	Disc Diameter (mm)	Rotating Speed of Disc (r/min)	Feed Size (mm)	Feed Amount (kg/h)	Motor Model	Motor Power (kW)	Weight (kg)
φ140	140	1.13	0~2	1.5~2.4	Y801-4	0.55	65
φ170	170	18.5		1.5~3.6			76