

Abstract

A KIND OF INVERTING CENTRIFUGE

The invention belongs to the technical field of centrifuges and relates to a kind of inverting
5 centrifuge which includes drum, pushing plate, cylindrical filter cloth, sealing cover, outer shaft
and inner shaft. Pushing plate is connected with inner shaft. Two ends of cylindrical filter cloth
are connected separately to pushing plate and front end of the drum. Feeding pipe is in the
middle of the sealing cover. The filter cloth cleaning mechanism includes steel ring, annular
electromagnets and coil brackets. The steel ring is connected to the annular electromagnet by
10 magnetic attraction and is in contact with the inner side of the cylindrical filter cloth. The
locking mechanism includes a annular sealing sleeve which is fixed to the drum. The sealing
cover is clamped with the annular sealing sleeve. During discharge, the inner shaft pushes the
pushing plate and the sealing cover to move towards the front end of the drum, and drive the
rear end of the cylindrical filter cloth to fold in half towards the front end. The steel ring is
15 always attracted by the annular electromagnet and is located at the bend of the cylindrical filter
cloth to pull it, tightening the folded cylindrical filter cloth to prevent it from being damaged
due to irregular folding and squeezing. At the same time, the solid products adsorbed on the
inner circle of the cylindrical filter cloth are scraped off.

20 [Figure 1]