

Operating Instruction

MAGNETIC SEPARATOR

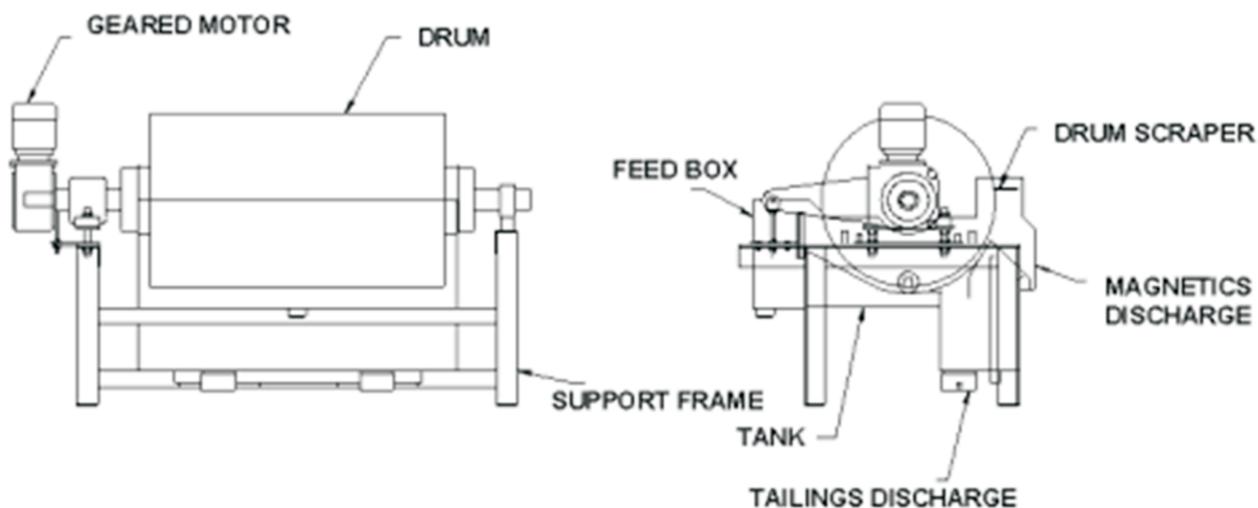


Henan Hongxing Heavy Machinery Co., Ltd.

The Handling Materials and Application of Magnetic Separator:

Magnetic separator is suitable for the wet magnetic separation of the materials whose granularity is below 3mm such as magnetite, pyrrhotite,

calcined ore and ilmenite and can also be used for removing iron from the materials such as coal, non-metal ore and building material.



The Main Types and Advantages of Magnetic Separator:

The magnetic system of magnetic separator is a compound of fine ferrite material and rare earth magnets and the average magnetic induction intensity of the surface of the cylinder is 100~600mT. According to specific need, customers can choose from many kinds of magnetic separators with

different surface magnetic intensity such as downstream type, semi-reflux type and reflux-type. This product has the advantages of simple structure, big processing capacity, convenient operation and easy maintenance.



Features

1. The coarse separation of the lean iron ore after coarse crushing or medium crushing eliminates the barren rocks such as surrounding rock, improves the taste of the iron ore and eases the load of the next procedure.

2. Magnetic separator can be used in the closed circuit firing work for restoring the hematite, and it can separate the rawore that

are not fully restored and return it for firing again.

3. In the ceramic industry, magnetic separator can remove the iron mixed in the petuntse and improve the quality of the ceramic product.

4. Magnetic separator can also be used in coal firing, sand making, refractory and other industries that need deironing.



Characteristics:

Processing ability: 1–220 t/h

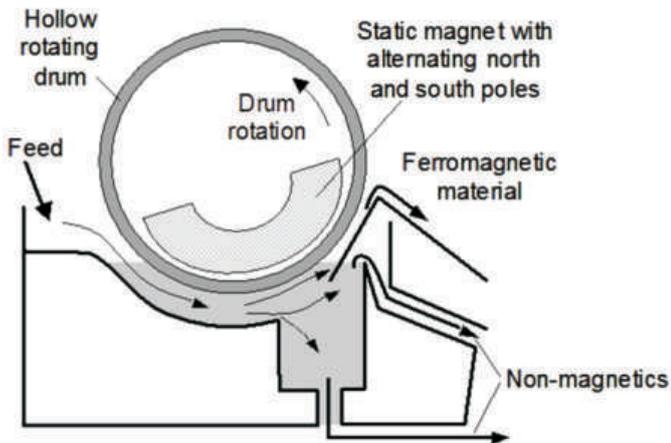
Feeding size: 3–0 mm

Shell diameter: 600–1500 mm

Applied material: magnetite, pyrrhotite, calcined ore, ilmenite, etc



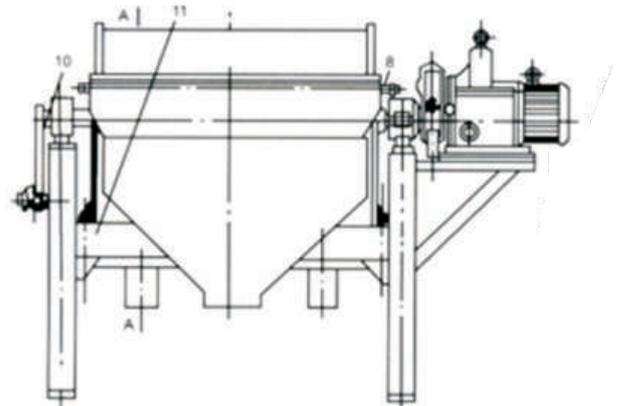
Technical data :



Working principle

The pump enters into the mining area of the cell through ore box with the force of water flow. Magnetic particles form into magnetic ball or linkage with the force of magnetic field. The magnetic ball and linkage are absorbed on the drum during they are moving towards magnetic pole with the magnetic force. When the magnetic ball and linkage are rotating with the moving drum, because of alternating polarity and magnetic stirring, the gangue and other non magnetic ore mixed in magnetic ball and linkage is fall down, while magnetic ball and linkage are absorbed on the surface of the drum. These are concentrates we need. The concentrates come to the field where the magnetic is the weakest with the rotating drum. Then they fall in to concentrate slot by the water flow. But the full magnetic roller uses brush roll to discharge ores. At last, the non-magnetic or weak magnetic minerals are discharged out of the cell with plump.

Model	Shell diameter (mm)	Shell length (mm)	Shell rotation speed (r/min)	Feeding size (mm)	Processing capacity (t/h)	Power (kw)
CTB6012	600	1200	<35	2-0	10-20	1.5
CTB6018	600	1800	<35	2-0	15-30	2.2
CTB7518	750	1800	<35	2-0	20-45	2.2
CTB9018	900	1800	<35	3-0	40-60	3
CTB9021	900	2100	<35	3-0	45-60	3
CTB9024	900	2400	<28	3-0	45-70	4
CTB1018	1050	1800	<20	3-0	50-75	5.5
CTB1021	1050	2100	<20	3-0	50-100	5.5
CTB1024	1050	2400	<20	3-0	60-120	5.5
CTB1218	1200	1800	<18	3-0	80-140	5.5
CTB1224	1200	2400	<18	3-0	85-180	7.5
CTB1230	1200	3000	<18	3-0	100-180	7.5
CTB1530	1500	3000	<14	3-0	170-280	11



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