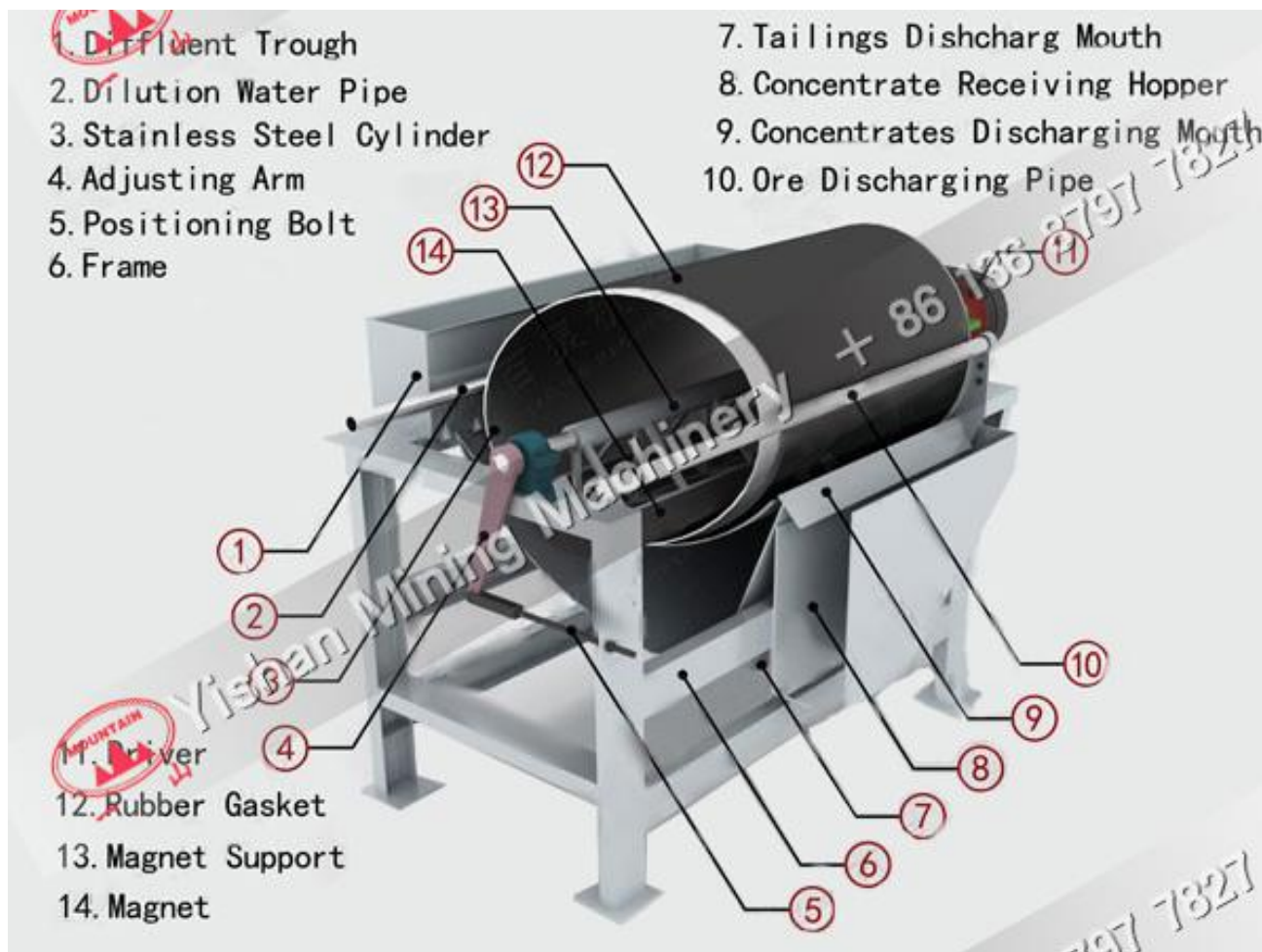


Permanent magnetic separator



1、 Range of application

The series of magnetic separator for sorting magnetic minerals, non-metallic materials and waste materials deironing. Such as: reduction of titanium magnetite, iron ore smelting in front of the purifying selection, ceramic clay, feldspar, quartz, iron ore, coal and other materials in addition to iron.

2、 The structure and working principle

CT series cylinder type permanent magnetic separator, drum body and a groove near the magnetic system parts are made of non-magnetic material of stainless steel, cylinder end cap cast in aluminum, and other ordinary steel production. Equipment structure is composed of a machine frame, body, a cylinder, a magnetic system, power plant, feed, water, discharging part. The groove body and cylinder distance according to the mineral separation of lifting adjustment, magnetic angle can be adjusted at.(no water supply device of dry type)

1) CTC dry magnetic separator: dry aggregate from the hopper into the cylinder directly to the upper or lower portion of the drum, magnetic mineral particles are magnetic in the surface of the drum, winding drum rotates to the edges of the natural unload magnetic system. Non magnetic mineral particles by the action of gravity and centrifugal force and magnetic products into different ore bucket. Magnetic products

Jiangxi yishan International Mining Machinery Manufacturing Co.,Ltd

Engineer: Baron Mobile\Whatsapp\WeChat:008613687977827 baron@jxyishan.com

magnetic products and is arranged in the middle of ore isolation plate, according to the mineral material selected to adjust the situation.

2) CTB semi-counter current magnetic separator magnetic lines in the lower part of drum. Pulp from the tank into the lower part of the lower roller, non-magnetic minerals in the direction of movement and the rotation of the drum in the opposite direction, magnetic minerals moving direction and rollers rotate in the same direction. The lower part of the spray pipe body is inserted, is used to adjust the separating operation of slurry concentration, the slurry dispersed into loosely suspended state into the separation space. The magnetic particles in the magnetic system of magnetic field force, is absorbed on the surface of the roller, roller together with the upwardly mobile. In the moving process, because the magnetic lines of alternating polarity, so that the magnetic mineral particles into a chain of turning, in the turning process, the inclusions in the magnetic mineral particles in non magnetic mineral impurities is cleared, so as to effectively improve the purpose of magnetic products. Semi countercurrent magnetic separator for mineral slurry concentration and granularity is sensitive to change, when the concentration is too large or grain through the metropolitan influence index of mineral processing.

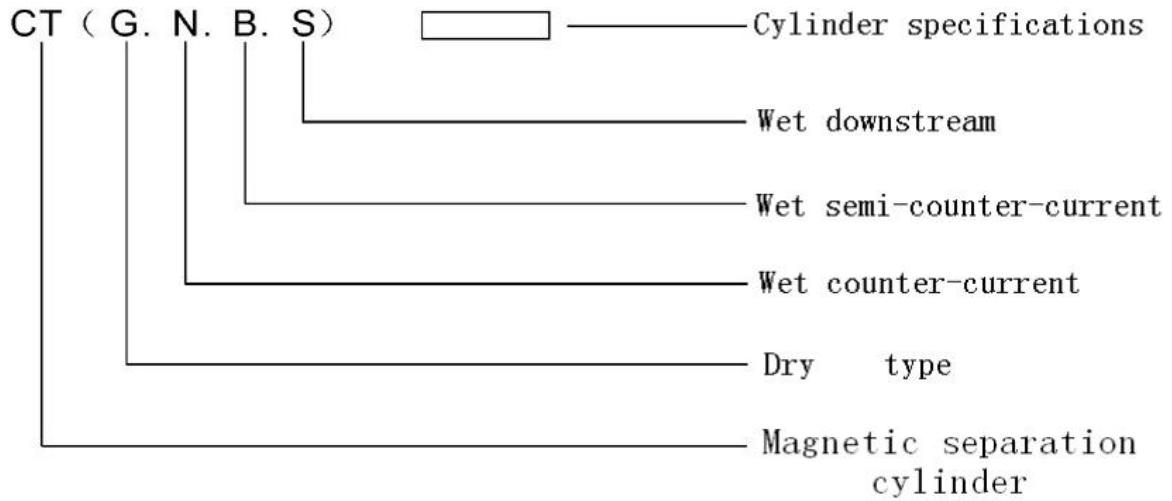
3) CTS downstream separator: feeding direction and the direction of rotation of the drum or magnetic mineral moving direction. The pulp comprises feeding bucket directly into the cylinder below the magnetic system, non magnetic particle and magnetic weak mineral particles from beneath the tank bottom roller two and the gap between the discharge, magnetic mineral particles are sucked on the surface of the cylinder, with the roller to rotate together to the magnetic system edge discharge, magnetic ore discharging position is provided with a discharging water pipe. Downstream separator on mineral beneficiation of wide adaptability, easy separating space is smooth without obstruction, particularly applicable to contain magnetic minerals a larger proportion of the magnetic separation process.

4) CTN upstream separator: feeding direction and drum rotation direction or magnetic material moves in the opposite direction. The pulp comprises feeding bucket directly into the cylinder below the magnetic system, non magnetic particle and magnetic weak mineral particles from tank bottom hole discharging tailings, magnetic mineral particles with the roller against the feed direction to give mine is discharged to the magnetic ore groove, for the reduction of magnetic products with non-magnetic mineral, in magnetic ore unloading mounted before the cleaning water pipe, magnetic ore discharging position is provided with a discharging flushing pipe. Countercurrent separation machine due to the magnetic ore discharge end distance to mine mouth close, magnetic turning effect is poor, so the magnetic ore grade to be slightly lower, but its tailings ore export far away from the mouth, the pulp after longer divided districts, increases the magnetic mineral particles are magnetically attracted to opportunity, all the magnetic separator magnetic product recovery rate is quite high, counter flow type magnetic separator suitable for only require nonmagnetic product precision of various minerals.

Jiangxi yishan International Mining Machinery Manufacturing Co.,Ltd
Engineer: Baron Mobile\Whatsapp\WeChat:008613687977827 baron@jxyishan.com



3、 Specification



Model and specification	Shell size(mm)		Shell rotation speed (r/min)	Capacity		Motor power (kw)	Dimensions (mm)	Weight (kg)
	Diameter	Length		t/h	m³/h			
CT(G,N,B,S)-912	900	1200	31	15~35	45~105	3	2510×1630×1370	1150
CT(G,N,B,S)-915	900	1500	31	20~40	60~120	4	2810×1630×1370	1340
CT(G,N,B,S)-918	900	1800	31	25~55	75~165	4	3110×1630×1370	1500
CT(G,N,B,S)-921	900	2100	31	30~60	90~180	4	3410×1630×1370	1780
CT(G,N,B,S)-924	900	2400	31	35~65	105~190	4	3710×1630×1370	1950
CT(G,N,B,S)-927	900	2700	31	40~70	120~210	4	4010×1630×1370	2050
CT(G,N,B,S)-1012	1050	1200	22	25~50	75~150	4	2530×1780×1520	1380
CT(G,N,B,S)-1015	1050	1500	22	35~65	105~195	4	2830×1780×1520	1620
CT(G,N,B,S)-1018	1050	1800	22	40~75	120~225	5.5	3130×1780×1520	1870

Model	Shell diameter(mm)	Shell length(mm)	Shell rotation speed(r/min)	Feeding size(mm)	Processing capacity(t/h)	Power(k w)
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

4、 Installation and use

- 1) At first machine installed must check the transport loading and unloading is loose, damaged.
- 2) The horizontal position, implement, conventionally grounded.
- 3) Check, adjust the magnetic system to the fixed position processing and working distance.
- 4) Before the first test machine, drum empty running again, water supply, feeding, everything is normal, and then evenly feeding load test machine. According to the material separation requirements for adjusting the output, quality, recovery rate.

5、 Preventive maintenance

- 1) Removing: drum removable from the frame, standing on a stable level of supporting frame. Have a head driving device placed below.
- 2) When hoisting drum magnetic parts do not close to the strong magnetic tool or magnetic materials.
- 3) Will fixed aluminum cover fastening screw removal. The 4 screw mount aluminum end cover removing hole. Parallel to the rotating 4 pearl will cover up after unloading, and then remove the lower end cover fastening screw, can come up with a stainless steel cylinder. Aluminum cover middle small iron cover for the bearing cover and cover solid screw.
- 4) The assembly must be completely to the magnetic surface and stainless steel inner cylinder of clean.
- 5) Transmission gears, bearings, reducer shall be regularly maintained and filling calcium base grease lubricating oil.

6、 Cautions

- 1) Strong magnetic tools, articles shall not be close to the magnetic system.
- 2) Do not beat, collision stainless steel tube.
- 3) Super size mineral, not into the machine, so as not to get stuck or wear of stainless steel copper cylinder.
- 4) Abnormal sound, should be excluded.