

Series LHGC – Z (1.7T) High Gradient Separator

Specification

English Version
For reference only

General Introduction

The Series LHGC High Gradient Separator of evaporation cooling is applied in wet processing for weakly magnetic minerals, whose partial size is under 1.2 mm, such as Hematite, Limonite, Siderite, Manganese ore, Ilmenite, and Wolfram, it is also available to separate of Scheelite and Wolfram, Cassiterite and Wolfram.

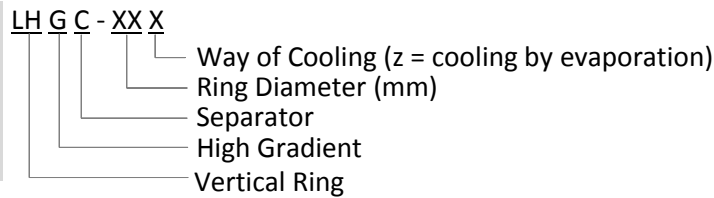
LHGC series is able to separate iron from non-metallic mineral, for example, Quartz, Feldspar, Nepheline and Kaolin.



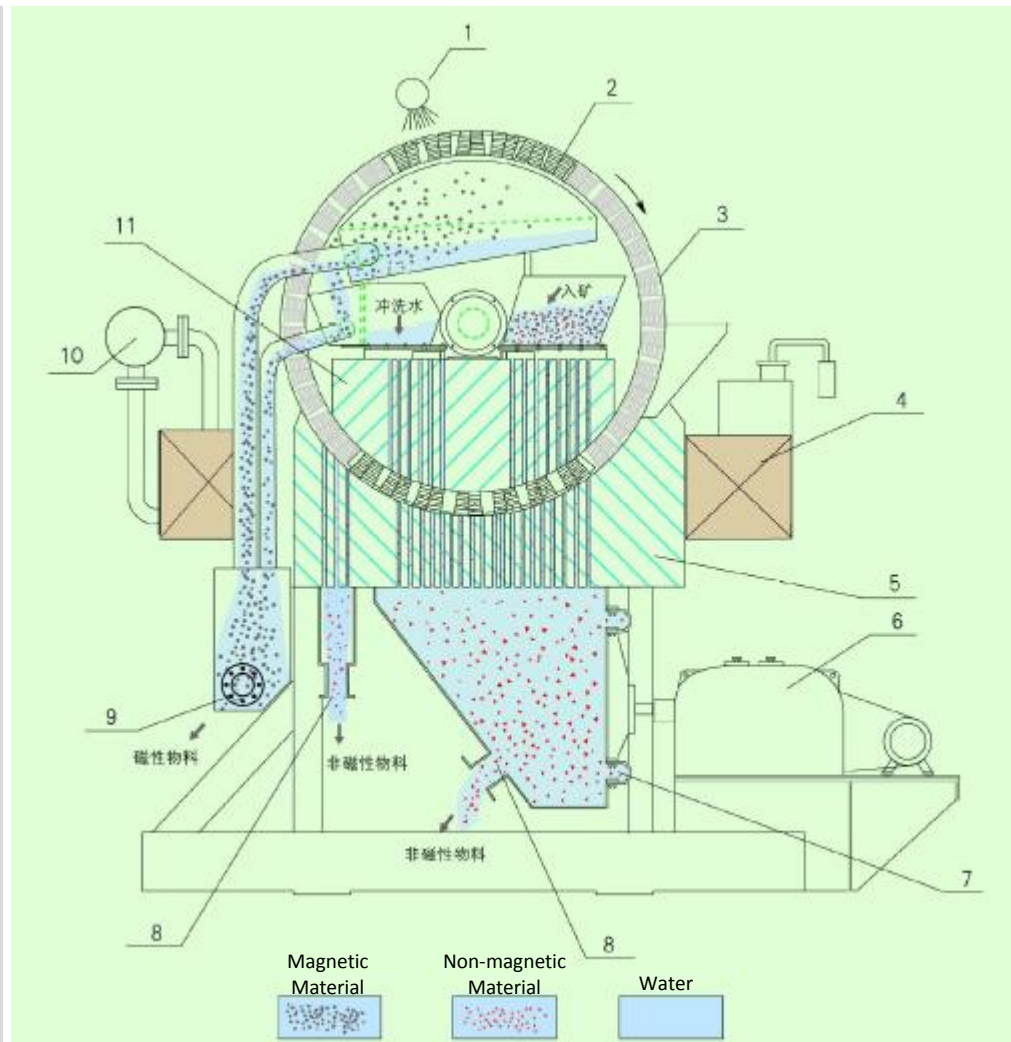
Features

- computer-simulation magnetic circuit with rational construction, lower magnetic leakage, and higher background magnetic field, reaching 1.7T.
- Efficient cooling method, typical working temperature of machine is under 48°C with uniform distribution.
- Reliable working status under different environment and long working life
- High efficiency of separation and recovery rate.

Model Instruction



Separation Instruction



1-water or unload ore; 2-magnets; 3-rotation ring; 4-exciting winding; 5-magnet pole; 6-pulsating box; 7-rubber tympanic membrane; 8-outlet for non-magnetic material; 9-outlet for magnetic material; 10-cooling system; 11-magnet pole

Specification Table

Model	unit	LHGC-1500Z	LHGC-1750Z	LHGC-2000Z	LHGC-2500Z	LHGC-3000Z	LHGC-3600Z
Background Magnetic Field	T	≤ 1.8					
Rated Exciting Power	kW	≤128	≤135	≤147	≤155	≤170	≤185
Capacity	t/h	20-30	30-50	50-80	80-150	150-250	250-350
Pulp Capacity	m ³ /h	50-100	70-160	100-200	200-400	350-650	250-650
Exciting Current	A	300-380					
Feed density	%	10-40					
Feed size	mm	≤ 1.2					
Rings rotary speed	r/min	2-4					
Ring outer diameter	mm	1500	1750	2000	2500	3000	3600
Motor Power Of Ring	kW	4	7.5	11	15	18.5	30
Motor Power Of Pulse	kW	3	4	7.5	11	18.5	30
Pulsating Distance		0-30 (adjustable)					
Pulsating Frequency	r/min	0-300 (frequency adjustable)					
Exciting Voltage	DCV	0-514 (change with current)					
Water Pressure	MPa	0.2-0.4					
Water Consumption	m ³ /h	20-30	30-50	50-100	100-150	150-250	150-250
Weight	t	50	70	95	175	310	450
Weight for Heaviest part	t	16	20	37	40	45	50
Outline dimension LxWxH	dm	38x35x36	42x38x40	49.42x46.86 x47.28	62x54x58	79x70x78	85x76x85
Accessory cylinder screen		YTS-810 YTS-1210	YTS-1415 YTS-2019	YTS-1415 YTS-2019	YTS-2019 YTS-2529	YTS-2529	YTS-2529