

Series LHGC – F (1.4T) High Gradient Separator

Specification

English Version
For reference only

General Introduction

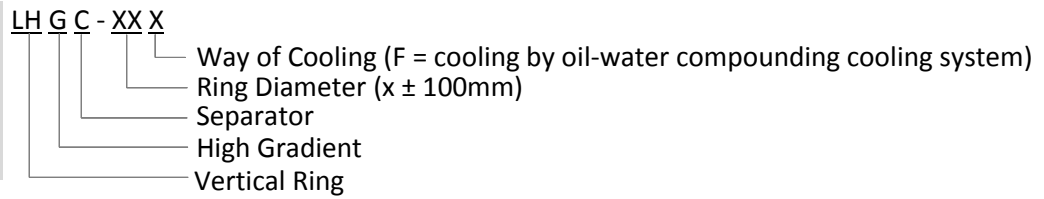
The Series LHGC High Gradient Separator of oil-water compounding cooling system is applied in wet processing for weakly magnetic minerals, whose partical size is under 1.2 mm, such as Hematite, Limonite, Siderite, Manganese ore, Ilmenite, and Wolfram.
LHGC series is able to separate iron from non-metallic mineral, for example, Quartz, Feldspar, Nepheline and Kaolin.



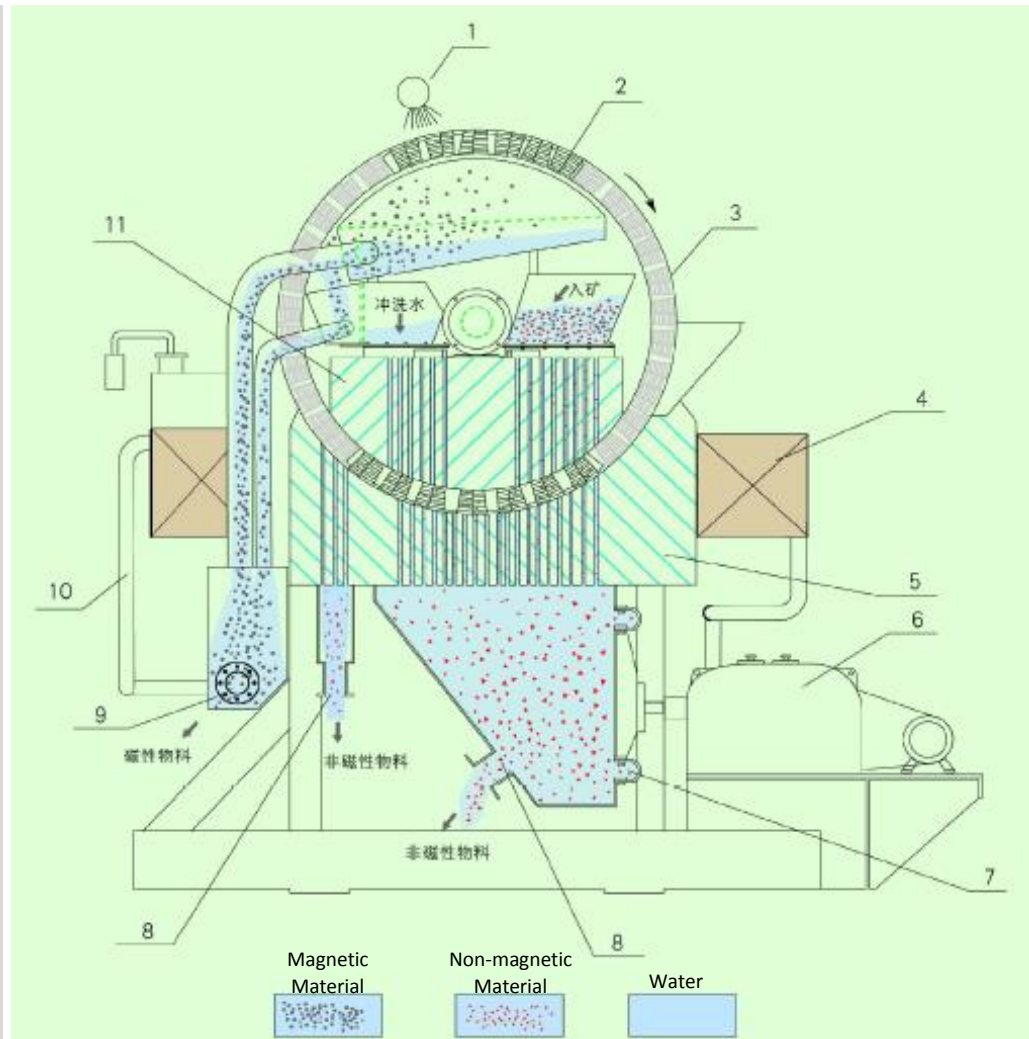
Features

- Background magnetic field reaches 1.4T
- water for unload ore is used for cooling the oil of Transformer, no-extra cooling water is required, efficiency and environment friendly
- Reliable working status under different environment and long working life
- intelligent fault-diagnose system and remote control system

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-7F (Z)	LHGC-10F (Z)	LHGC-12F (Z)	LHGC-15F (Z)	LHGC-17F (Z)	LHGC-20F (Z)	LHGC-22F (Z)	LHGC-25F (Z)	LHGC-30F (Z)	LHGC-36F
Background Magnetic Field	T	1.4 (0.6) Constant current can be adjusted continuously									
Matrix-inducing Intensity	T	2.4 (1.2) Constant current can be adjusted continuously									
Rated Exciting	kW	≤30 (8)	≤40 (10)	≤50 (12)	≤60 (15.5)	≤72 (23)	≤85 (29)	≤92 (32)	≤98 (37)	≤110 (48)	102
Capacity	t/h	0.1-0.5	4-7	10-18	20-30	30-50	50-80	80-120	100-150	150-250	250-400
Pulp Capacity	m ³ /h	1-2	12.5-20	20-50	50-100	75-150	100-200	160-300	200-400	350-650	550-950
Exciting Current	A	64	85	105	127	153	180	195	207	233	230
Feed density	%	10-40									
Feed size	mm	-1.0	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
Rings rotary speed	r/min	3									
Ring outer diameter	mm	700	1000	1250	1500	1750	2000	2250	2500	3000	3600
Motor Power Of Ring	kW	0.75	1.1	1.5	3	4	5.5	7.5	11	18.5	30
Motor Power Of Pulse	kW	1.5	2.2	3	3	4	7.5	7.5	11	18.5	30
Pulsating Distance		0-30 (adjustable)									
Pulsating Frequency	r/min	0-300 (frequency adjustable)									
Exciting Voltage	DCV	0-514 (280) (change with current)									
Water Pressure	MPa	0.1-0.2	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.6
Water Consumption	m ³ /h	1.4-2.5	8-12	12-20	20-30	30-50	50-100	140-200	100-150	150-250	300-500
Weight	t	8 (3.5)	15 (7)	24 (11)	34 (20)	45 (28)	60 (39)	85 (62)	125 (83)	165 (135)	308
Weight for Heaviest part	t	1.1 (0.5)	3.3 (2)	5 (3.5)	7 (4)	15 (9)	20 (13)	28 (16)	32 (18)	38 (19)	35
Outline dimension LxWxH	dm	20x13.6x16.8	32x23.4x27	32x23.4x27	36x29x32	39x33x38	42x35.5x42	44.6x4.81x48.8	58x50x54	76x65x72	83x67.5x78.5
Accessory cylinder screen		YTS-810	YTS-810 YTS-1210	YTS-810 YTS-1210	YTS-810 YTS-1210	YTS-1415 YTS-2019	YTS-1415 YTS-2019	YTS-2019 YTS-2529	YTS-2019 YTS-2529	YTS-2529	YTS-2529

* Data in red means medium intensity high gradient magnetic separator