



# SLon-100 CYCLIC HIGH GRADIENT MAGNETIC SEPARATOR

Specifications of SLon-100 Cyclic pulsating high gradient magnetic separator

Specifications	Model	SLon-100 (1.7T)	SLon-100 (1.2T)
Diameter×Height of separating cavity (mm)		Φ100×100	Φ100×100
Background Field (T)		0-1.7	0-1.2
Energizing current (A)		0-1800	0-1200
Energizing Voltage (V)		0-28	0-16.4
Energizing Power (Kw)		0-50.4	0-19.7
Pulsating Power (Kw)		0.75	0.55
Pulsating stroke (mm)		0-30	0-30
Pulsating frequency (r/min.)		0-600	0-600
Ore-feeding size (mm)(-200 mesh %)		-1.3 (50-100)	-1.3 (50-100)
Ore-feeding concentration (%)		5-40	5-40
Feed (g/cycle)		100-600	100-600
Water pressure (MPa)		0.15-0.2	0.15-0.2
Machine Weight (Kg)		2500	2200
Dimension (L×W×H) (mm)		1600×800×1700	1600×800×1600

SLon-100 Cyclic High Gradient Magnetic Separator can be used for doing small tests in the lab or preparing small amount of mineral products. And it is fit for wet separation of weakly magnetic minerals and also is applied in purification and removing irons from nonmetals minerals. Moreover, it is equipped with pulsation mechanism and its pulsation, pulsation frequency and background magnetic field can be steplessly adjusted in a large range. This machine has been utilized in the laboratories of foreign and domestic scientific research institutions, academies and large-scale mining companies for meeting the requirements of different minerals processing. Now we have designed and manufactured two types of SLon-100 Cyclic High Gradient Magnetic Separator, which magnetic field are respectively 1.2T and 1.7T.



## 附件 1 设备详细参数

## Annex-1 Details of Equipment's Parameters

型号 Model	SLon-500T(1.7T)	SLon-100T(1.7T)
产品系列 Product Series	SLon HGMS	SLon HGMS
转环外径 Ring Diameter (mm)	500	100
介质盒规格 Matrix Type	棒介质 Rod Matrix	棒介质 Rod Matrix
转环转速 Ring Speed (r/min)	0.3~3.0	0.3~3.0
给矿粒度 Feed Size (mm),(-200mesh%)	-1 (30~100)	-1 (30~100)
给矿浓度 Feed Solid Density (%)	10~40	5~40
矿浆通过能力 Slurry Throughput (m3/h)	0.2~ 0.5	0.25~ 0.5
干矿处理量 Ore Capacity (T/H)	0.03~0.125	200g-300g/batch
额定背景场强 Background Intensity (T)	0~1.7	0~1.7
额定激磁电流 Energizing Current (A)	1900	1800
额定激磁电压 Energizing Voltage (V)	24.6	28
额定激磁功率 Energizing Power (KW)	47	51
转环电动机功率 Ring motor Power (KW)	0.18	—
脉动电动机功率 Pulsating Power (KW)	0.37	0.75
脉动冲程 Pulsating Stroke (mm)	0 ~ 30	0 ~ 30
脉动冲次 Pulsating Frequency (Cycle/min)	0 ~ 400	0 ~ 600
供水压力 Water Pressure (MPa)	0.1 ~ 0.2	0.1 5~ 0.2
冲洗水量 Water Consumption (m3/H)	0.75~ 1.5	0.75~ 1.5
冷却水水量 Cooling Water Consumption (m3/h)	1 ~ 1.5	—
总重量 Total weight (T)	2.2	2
最大零件重量 Maximum Part Weight (t)	0.5	—
外形尺寸 Dimension (L*W*H, mm)	1850*1450*1400	1600*800*1700



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