

Wet Drum Permanent Magnetic Separator



WELL-TECH EQUIPMENT
威尔国际矿业装备

Descriptions

Wet Drum Permanent Magnetic Separator is suitable for Mine, Coal preparation plant etc. use weak wet magnetic field to sort out the strong magnetic ore, or eliminating the strong magnetic minerals mixed in nonmagnetic minerals. The magnetic field of CTS(N,B) wet drum permanent magnetic separators divide into rotary and fixed. The fixed one is mainly use in weak magnetic field to separate the fine particle strong magnetic materials, or eliminating the strong magnetic materials in the nonmagnetic ores.

When the ore pulp entering magnetic field area, the ferromagnetic materials are sucked up on the surface of the drum, weak magnetic substance and nonmagnetic minerals are washed away by water, the absorbed magnetic minerals on the surface of drum are rotated with the drum and taken out of magnetic field area. The rotary one is suitable to dry separate the fine particle strong magnetic ore, because of speedy rotation, the magnetic particle rolling more times than other magnetic separator, which is effectively destroy the reunite of magnetic and arise the high-grade ore, the ore are divide into magnetic and nonmagnetic after separation, and discharge from the own road. This machine is suitable for the roughing and cleaning of particle size in 6-0mm size.

This machine has three kinds of tank: CTB, CTS and CTN, the same kind of drum could match those three tanks, to suitable different separation work and different requirement:

- CTS is suitable for the roughing and cleaning of particle size in 6-0mm;
- CTN is suitable for the cleaning and scavenging of fine particle size in 0.6-0mm , and it is often applied to recycle heavy medium in coal;
- CTB is suitable for the roughing and cleaning of ores in size of 0.5-0mm, especially suitable for the cleaning of ores in size of 0.15-0mm.

This Wet drum permanent magnetic separator can continuously feeding ores and discharge ores ,with large magnetic field intensity, high magnetic field gradient, big working clearance, higher processing ability and little magnetic flux leakage, low energy consumption, fine beneficiating results, simple structure and easy to maintain.

Technical Specifications

Model	Shell size (Shell diameter×Shell length) mm	Magnetic induction on shell surface mT			Capacity		Power Kw	Shell rotation speed r/min	Weight Kg
		Magnetic pole geometric centre	Average	Max. magnetic strength	T/h	m ³ /h			
CTS(N.B)-46	400×600		130	750	1~2	3	1.1	45	600
CTS(N.B)-66	600×600		145	750	5~10	16	2.2	40	705
CTS(N.B)-69	600×900		145	750	8~15	24	2.2	40	830
CTS(N.B)-615	600×1500		145	750	10~20	32	2.2	40	990
CTS(N.B)-618	600×1800		145	750	15~30	48	3	40	1330
CTS(N.B)-712	750×1200	120	155	750	15~30	48	3	35	1500
CTS(N.B)-718	750×1800	120	155	750	20~45	72	3	35	2100
CTS(N.B)-918	900×1800	148	165	750	25~55	90	4	28	2900
CTS(N.B)-924	900×2400	148	165	750	35~70	110	4	28	3500
CTS(N.B)-1018	1050×1800	148	165	750	40~75	120	5.5	22	4000
CTS(N.B)-1021	1050×2100	160	240	750	45~88	140	5.5	22	4500
CTS(N.B)-1024	1050×2400	160	240	750	52~100	160	5.5	22	5000
CTS(N.B)-1030	1050×3000	160	240	750	65~125	200	7.5	22	6200
CTS(N.B)-1218	1200×1800	160	240	750	47~90	140	5.5	19	5800
CTS(N.B)-1224	1200×2400	160	240	750	82~120	192	7.5	19	6200
CTS(N.B)-1230	1200×3000	160	240	750	80~150	240	7.5	19	7200
CTS(N.B)-1530	1500×3000	180	240	750	90~170	270	11	14	8100
CTS(N.B)-1540	1500×4000	180	240	750	115~220	350	11	14	9300

Applications



WELL-TECH EQUIPMENT
威尔国际矿业装备

iron ore process machine



wet high intensity magnetic separator