

## GTEK Magnetic Separator for Dense-Medium Recovery



Single Drum



Double Drum

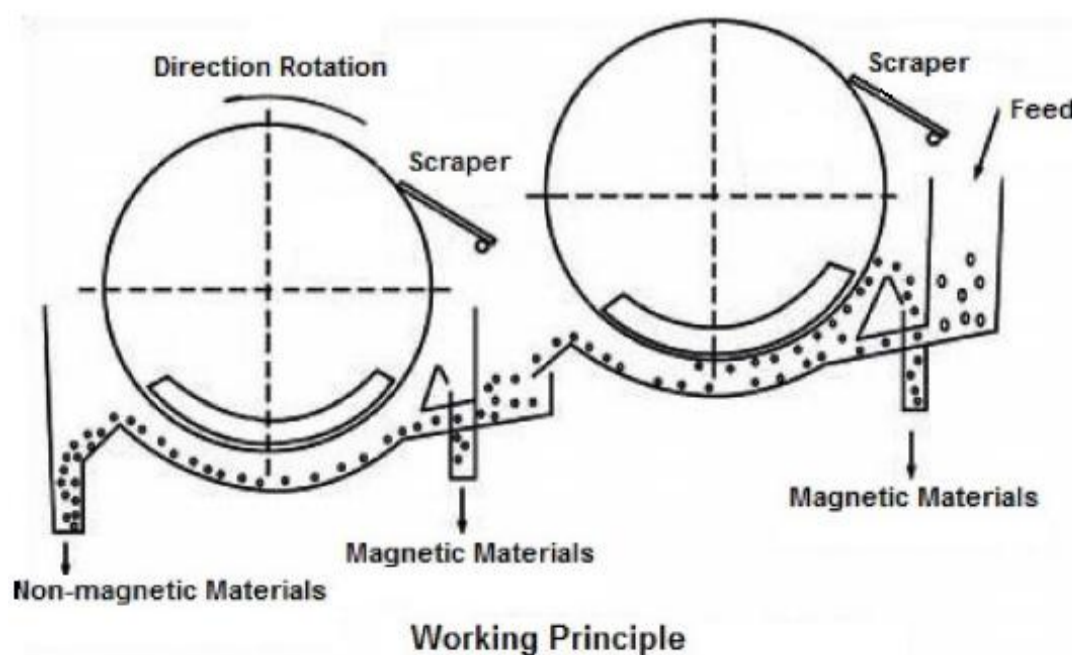
### ● Description

XCTN series Magnetic separation is designed for recovery of magnetic media circulating in dense media circuit in coal preparation plant. When wet drum magnetic separator is working, slurry is fed to the tank and subsequently flows through the magnetic field generated by the drum. The ferromagnetic minerals are attracted to the drum surface by the magnetic circuit and are rotated out of the slurry stream. The ferromagnetic discharge from the drum surface by the scraper and gravity when rotated out of the magnetic field.

### ● Advantages

1. Fully sealed magnetic system composed by ferrite and rare earth material;
2. Reasonable magnetic distribution benefit for ultimate recovery of finer particles;
3. Ore pulp flow can be properly generated due to exquisite design of the structure;
4. Adaptable for parameter changes such as slurry flow and concentration;
5. Simple structure, large processing capacity, easy operation and maintenance.

### ● Working Principle



● **Technical Specification**

<i>Model</i>	<i>Drum Size (mm)</i>	<i>Drum Length (mm)</i>	<i>Magnetic Intensity (GS)</i>	<i>Processing Capacity (t/hr)</i>	<i>Power (kw)</i>	<i>Rotation Speed (r/min)</i>	<i>Weight (kg)</i>
XCTN-46	400	600	1500-2800	1-3	1.1	45	600
XCTN-66	600	600	1500-2800	5-10	1.1	40	705
XCTN-69	600	900	1500-2800	8-15	1.1	40	830
XCTN-612	600	1200	1500-2800	10-20	2.2	40	990
XCTN-618	600	1800	1500-2800	15-30	2.2	40	1330
XCTN-712	750	1200	1500-2800	15-30	3	35	1500
XCTN-718	750	1800	1500-2800	20-45	3	35	2100
XCTN-918	900	1800	1500-2800	25-55	4	28	2900
XCTN-924	900	2400	1500-2800	35-70	4	28	3500
XCTN-1018	1050	1800	1500-2800	40-75	5.5	22	4000
XCTN-1021	1050	2100	1500-3500	45-88	5.5	22	4500
XCTN-1024	1050	2400	1500-3500	52-100	5.5	22	5000
XCTN-1030	1050	3000	1500-3500	65-125	7.5	22	6200
XCTN-1218	1200	1800	1500-3500	47-90	5.5	19	5800
XCTN-1224	1200	2400	1500-3500	82-120	7.5	19	6200
XCTN-1230	1200	3000	1500-3500	80-150	7.5	19	7200
XCTN-1530	1500	3000	1500-3500	90-170	11	14	8100
XCTN-1540	1500	4000	1500-3500	150-220	11	14	9300