



**Wet Type  
Permanent-magnet  
Cylindrical Type  
Separator**

**V-FLO GROUP OF COMPANIES LTD.**

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## Performance characteristics

The magnet separator is suitable for wet type magnet separating of magnetite, parrotite, roasted ore and limonite. It is also suitable for the iron removal work in coal, nonmetal and construction industries.

The magnet system is adopted from high quality ferrite magnetic material and rare earth permanent magnet, the magnet intensity on the shell surface is 1000-6000 Gauss. Advantages of this magnet separator are: simple structure, high processing capacity, easy-to-operate and easy-to-maintain.

According to the structure of trough, the wet type permanent-magnet cylindrical type separator can be classified as current type, semi-current type and converse current type.

The wet type permanent-magnet cylindrical type separator is commonly used for separation of iron ore. It is suitable for separating materials with high magnetism; in recent years, these separators have been used as concentrating equipment for replacing the magnetic dewatering cell before filtration.

## Technical parameters

Model	Shell dia (mm)	Shell length (mm)	Shell rotation speed (r/min)	Feeding size (mm)	Processing capacity (t/h)	Power (kW)
CTB6012	600	1200	<35	2-0	10-20	1.5
CTB6018	600	1800	<35	2-0	15-30	2.2
CTB7518	750	1800	<35	2-0	20-45	2.2
CTB9018	900	1800	<35	3-0	40-60	3
CTB9021	900	2100	<35	3-0	45-60	3
CTB9024	900	2400	<28	3-0	45-70	4
CTB1018	1050	1800	<20	3-0	50-75	5.5
CTB1021	1050	2100	<20	3-0	50-100	5.5
CTB1024	1050	2400	<20	3-0	60-120	5.5
CTB1218	1200	1800	<18	3-0	80-140	5.5
CTB1224	1200	2400	<18	3-0	85-180	7.5
CTB1230	1200	3000	<18	3-0	100-180	7.5

Note:

1. Flux density 1000 and 1400 Gauss are suitable to separate the spongy iron.
2. Magnetic source of flux density 3000, 4500 and 6000 Gauss shall be NdFeB, it is suitable to refine the non-magnetic material.



**V-FLO GROUP OF COMPANIES LIMITED**

**Add: 5th Floor East, Jiahuiyuan, Huao Center, 31 Zizhuyuan Road, Haidian District, Beijing, China 100089**

**Tel: +86-10-51906628 (10 lines)**

**Fax: +86-10-88580150**

**E-mail: [export@v-flo.com](mailto:export@v-flo.com)**

**<http://www.v-flo.com>**