

## ▶ Permanent Magnetic Roller

### Features

With the design of large magnetic wrap angle  $\leq 180^\circ$ , by increasing the length of sorting belt and magnetic turn, the efficient separation of magnetic and non-magnetic (or weak magnetic) minerals can be realized. Magnetic systems all adopt Nd-Fe-B magnets with high magnetic energy product and high coercivity, strong magnetic density and high affect depth. The demagnetization rate of the magnetic density within 8 years is no more than 5%.

Covering the magnetic system with non-magnetic stainless steel ensures no peeling off of the magnet.

The cylinder adopts non-magnetic stainless steel, covered with the super wear-resistant rubber produced by our company, thus the service life can be prolonged significantly.

The magnetic roller can not only be the driving roller, but also the driven roller.



### Application

It is used for the dry preconcentration before entering the grinding mills of the magnetite with the selected particle size of less than 300 mm. Generally, appropriate amount of tailings can be discarded, and the feed grade can be increased to or above geological grade.

### Technical Parameters

Model & Spec.	Diameter of Cylinder (mm)	Length of Cylinder (mm)	Width of Belt (mm)	Surface Magnetic Density (mt)	Capacity (t/h)	Feed Size (mm)	Total Weight (t)
CTGG-0812	800	1200	1000	300~500	$\leq 100$	$\leq 200$	2.1
CTGG-0814	800	1400	1200	300~500	$\leq 120$	$\leq 200$	2.6
CTGG-0816	800	1600	1400	300~500	$\leq 150$	$\leq 200$	3.2
CTGG-0818	800	1800	1600	300~500	$\leq 180$	$\leq 200$	3.9
CTGG-1018	1000	1800	1600	300~500	$\leq 270$	$\leq 250$	4.4
CTGG-1218	1200	1800	1600	300~500	$\leq 350$	$\leq 300$	5.0