MAGNETIC SEPARATOR

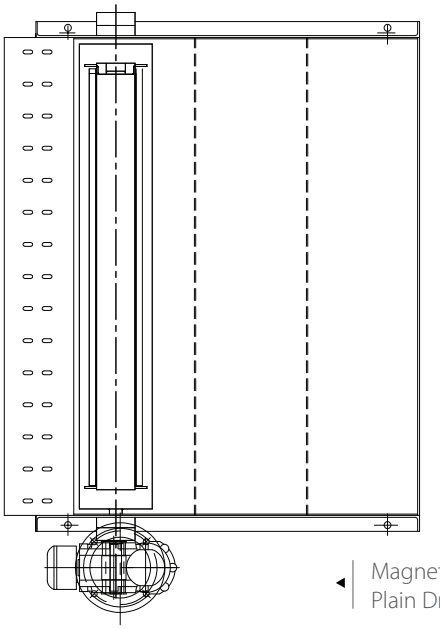
Magnetic separators remove iron particles from machine coolants. It consists of high intensity magnets that removes not only ferrous fines but non-ferrous fines too, which acts as a filter aid themselves. The magnetic separator ensures an uninterrupted flow of the coolant supply to machines for precision grinding. It can be used in both water soluble and oil (neat) coolants.

Magnetic separators are reliable, powerful and portable having wide range of applications. These magnetic separators are highly recommended to be used as a pre-filter to limit contaminants reaching subsequent filtration equipment, if any.

DRUM TYPE:

A magnetic drum with close dense magnetic field is assembled on non-magnetic SS shaft. The drum can be flat and finned type. Magnetic pole shoes are projected out to form fins, for better magnetic field alignment around the drum. The drum is rotated very slowly by a geared motor drive. A non-magnetic SS trough holds the dirty fluid close to drum. Magnetic dirt is picked-up by magnetic field & is attached to the finned drum.

Filtration capacity of drum type ranges from 50 to 1000 LPM .



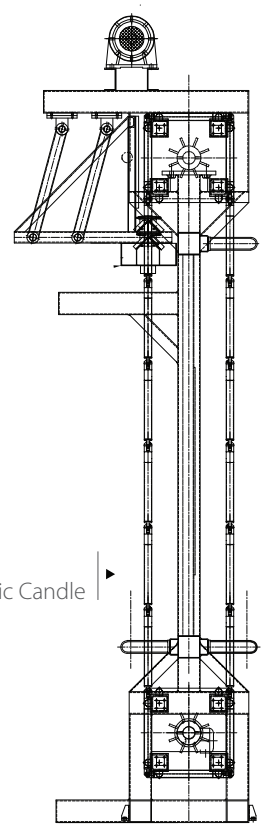
Magnetic Separator
Plain Drum Type

DRUM SIZES (mm)	MAX FLOW RATE (LPM)
100	500
150	600
200	1000
Above 1000 LPM, magnetic separators are used in parallel.	

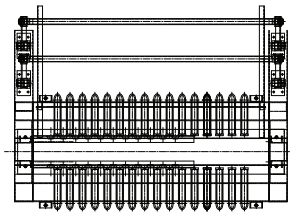
CANDLE TYPE:

An endless belt of magnetic candles is dipped in dirty coolant tank such that the dirty coolant enters in the core. Coolant Flows slowly over the magnetic candles leaving the ferrous dirt on the candles. The belt is indexed to pull out dirt-laden candles & rotate them at top to remove the dirt. The candles can be designed horizontal or vertical based on the type of application.

Filtration capacity of candle type ranges from 500 to 5000 LPM .



Vertical
Magnetic Candle



BENEFITS:

- Continuous operation to minimize machine downtime. No consumables needed.
- Improves tool life.
- Tapered disc for high magnetic concentration.
- Rare earth magnets can be used for added filtration efficiency.
- Ease of maintenance.
- Ideal for individual machines and can be used for centralized application.
- Systems are custom design to fit the space, coolant flow, viscosity of coolant and dirt load to be handled.

Website : **www.secoopermatics.com** ; Email: **sales@secoopermatics.com**

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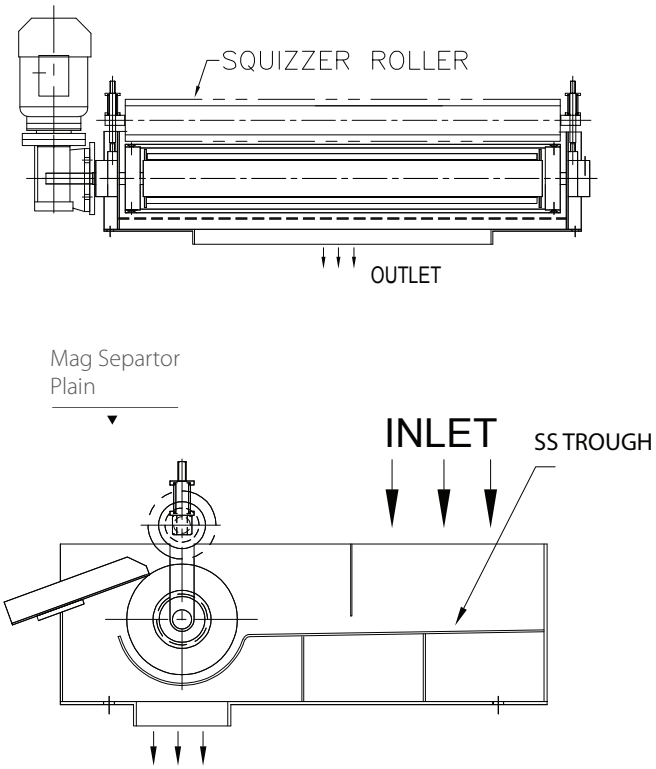
Engineering Greener Technologies

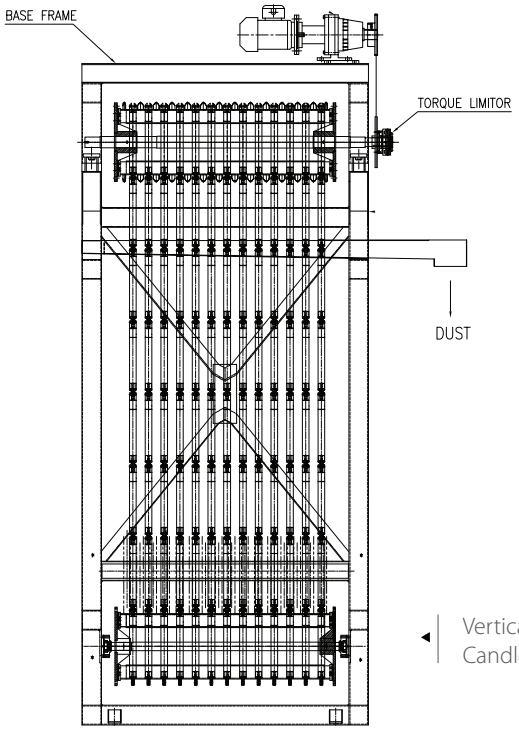
Drum Type	Advantages
Flat magnetic separator	Suitable for fine particle separation with dry sludge with the use of rubber roller.
Fin magnetic separator	Suitable for finer particles separation.

Candle Type	Advantages
Vertical magnetic separator	Provides effective filtration and ease of operation.
Horizontal magnetic separator	Mainly used for lower flow rate applications.

DRUM TYPE:



CANDLE TYPE:



Vertical Magnetic Candle

APPLICATIONS:

- Internal & centerless grinding
- Honing, lapping
- Gear hobbing
- Milling
- Machining centers
- Steel Rolling Mills
- Gear cutting

AMERICAS

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