

CLIMAX_x Magnetic Separator



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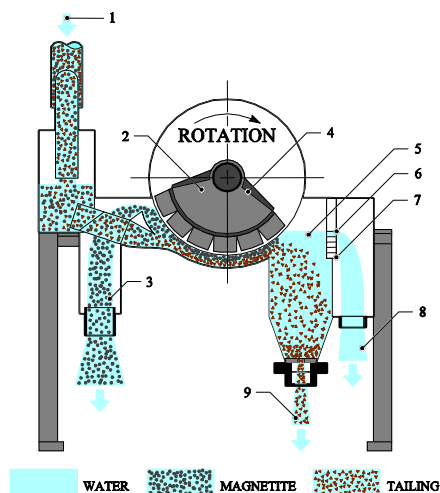
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The CLIMAX_x Magnetic Separator

The CLIMAX_x Magnetic Separator--Legend

- 1 Feed 2 Greater arc radius for magnets 3 Magnetics 4 High-efficiency magnet design
5 Submergence level 6 Overflow 7 Weir bars to vary overflow level
8 Overflow product to tailings (approx. 25%) 9 Underflow product to tailings (approx. 75%)



Technical Data

Drum Diameters	30"	36"
Drum Width	4'-10'	4'-10'

- 750 Gauss Interpole Magnetic Element
- Extended Arch, 6 Main Pole and 5 Interpoles
- All Stainless Steel Construction
- Greaseable Bearings
- 16 Gauge Wear Wrap

Operating Parameters

• Percent Solids in Feed	10 – 20 %
• Feed Slurry Volume	120–140 gpm/ft drum width
• Magnetic Load (max)	5.5 tph mag/ft drum width
• Magnetic Concentration (max.)	2.6 lb/gal
• Percent Nonmagnetics in Feed Solids	10 – 60 %
• Specific Gravity of Concentrates	2.2 – 2.6 SG

Performance

- Typical Magnetics Loss in Tailings is < 1 g/gal of Tailings

PrepTech, Inc., under license to CLI Corporation/Climax_x Equipment Company, sells the patented CLIMAX_x line of high-efficiency wet drum magnetic separators. The separator recovers magnetic media (magnetite or ferrosilicon) in dense media applications. The CLIMAX_x separator features a wide-angle magnet, assembled in a specially-designed tank, which improves recovery of fine magnetite or ferrosilicon. The magnetic media is then discharged at a higher than normal density. High concentrations of magnetic and nonmagnetic material in the feed are easily handled.

The patented design of the tailings removal system prevents plugging of the tailings spigots. Level control is flexible and does not require operator attention.



CLIMAX_x
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