

## Bi-polar Magnets

### Standard and Special Ohio Bi-Polar Magnet Designs and Options

Available in various standard widths: 8", 12", 13", 19" and 22", this model is also available in special widths to meet any application. Renewable or auxiliary pole shoes can be supplied for all sizes. Shoes convert standard magnets for special handling and then reconver to regular magnets quickly and easily for routine material handling.



### Design Advantages

A unique advantage of the Ohio Bi-Polar magnets is their capability to handle higher temperature material when compared to standard rectangular magnets. One reason is that the coil is positioned higher in the magnet design and farther away from the hot material load. Another is, there are fewer square inches of magnet pole area which come into contact with the hot material on a Bi-Polar magnet design. As a result, less heat is transferred from the hot material to the magnet allowing it to retain a greater percentage of its lifting ability on high temperature loads.

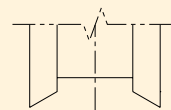
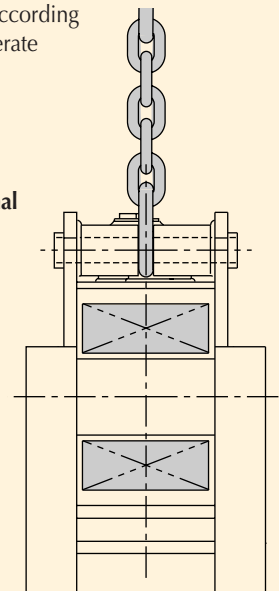
- **The most versatile magnet design for mill applications such as:**
  - Plates
  - Billets (hot and cold)
  - Coils (eye vertical and horizontal)
  - Structurals
  - Bundles
  - Rebar
  - Rails
  - Tubes and pipes
- **Low power consumption**
- **230 VDC Standard with special voltages available on request**
- **Custom designed pole shoes for radial or irregular shapes**
- **Hotwork designs readily available**

### PULL DATA

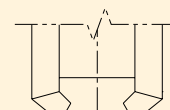
Width	Plate Size	#/in. of length
8"	1-1/2"	320
12"	2-1/2"	450
13"	3"	515
19"	3-3/4"	940
22"	5"	1,010

\* Working Pulls@230Volts D.C. under ideal conditions. Above capacities based upon clean, smooth flat, low carbon steel plate. Derate according to safety factor required. Derate for thinner plate.

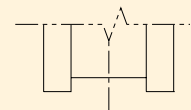
- **Heavy duty magnet construction**
- **Specifically designed internal construction, the correct balance of wire to steel, develops maximum flux density for heavy-duty lifting with minimum power consumption**
- **100% lifting area with a uniform field across the full length of the unit**
- **Pole lengths from 24" to 100" or to any special length you require**



Tapered poles for bundles, coils and structurals



Removable poles and angles and tubes



Flat poles for sheet and tubes