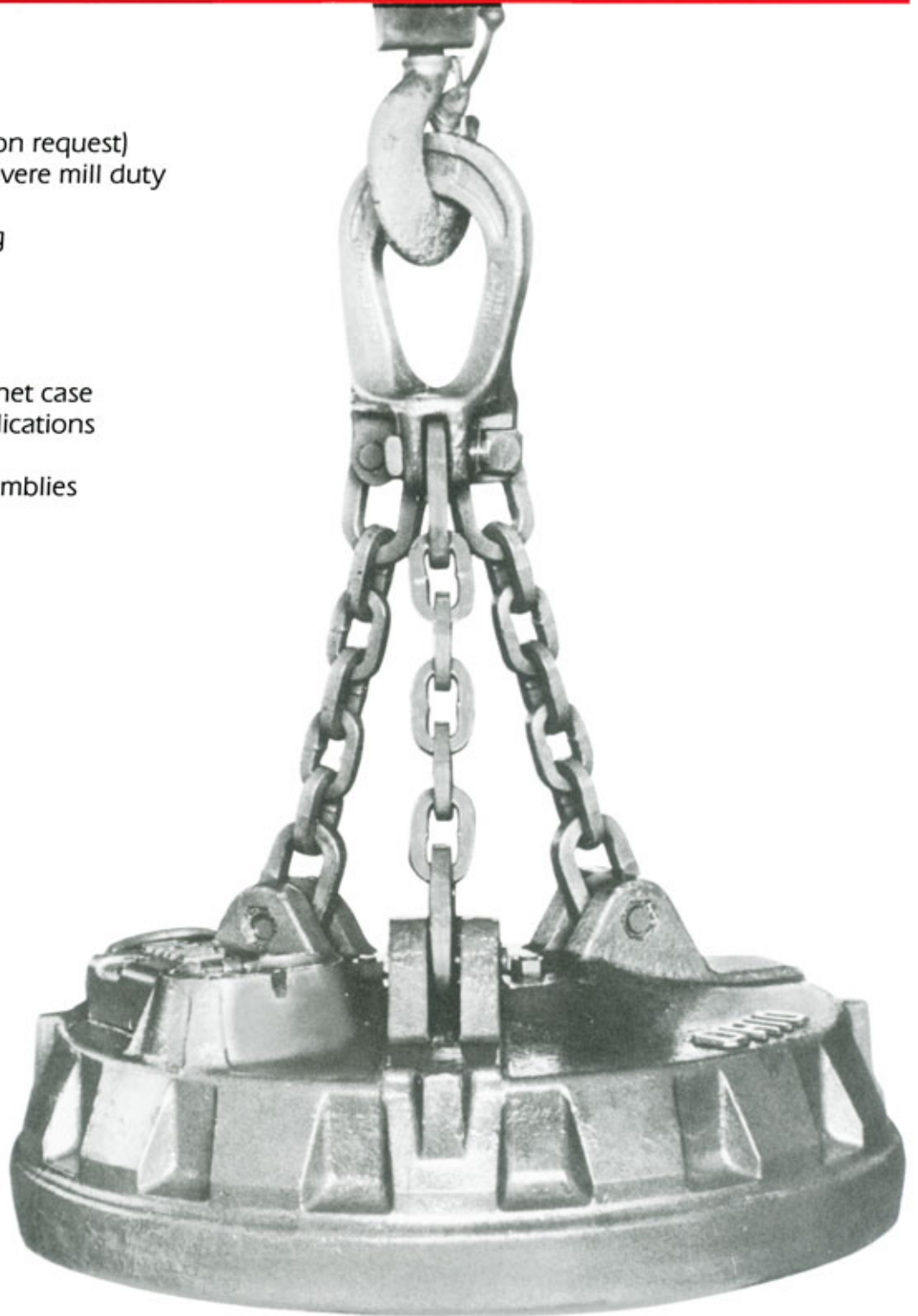


OHIO STEEL MILL TYPE

SR SERIES

- 230 Volts DC standard (special voltages available on request)
- Designed specifically for severe mill duty applications such as:
 - Heavy drop ball handling
 - Hot crop handling (hot work construction)
 - Slab handling
 - Slag reclamation
- Extra heavy cast steel magnet case
- Available for hotwork applications
- Alloy steel lifting chains
- Quick-disconnect lead assemblies



OHIO STEEL MILL TYPE

SR SERIES

TECHNICAL SPECIFICATIONS

Magnet Size & Type	Magnet Weight	Cold Amps*	Cold Watts	Controller Type	Min. Cable Size	Billet or Stab***	Drop Ball***	Pig Iron & #1 H.M.
34 SRC	1,700	19	4,300	CDS	10	15,500	9,000	800
40 SRDC	2,550	29	6,600	RD-1W	8	27,600	12,000	1,300
47 SRC	3,500	40	9,100	RD-1W	8	33,400	16,000	1,900
47 SRDA	3,600	38	8,800	RD-1W	8	33,400	16,000	1,900
47 SRDC	3,900	42	9,700	RD-1W	8	33,400	17,000	2,000
47 SREDC	4,400	44	10,200	RD-1W	8	33,400	18,000	2,100
57 SRC	6,000	63	14,400	RD-1W	6	56,500	20,000	3,100
57 SRDA	6,800	65	14,800	RD-1W	6	56,500	22,000	3,200
57 SRDC	7,200	71	16,400	RD-1W	6	56,500	25,000	3,400
57 SREDC	8,200	68	15,600	RD-1W	6	56,500	28,000	3,600
65 SRC	10,900	64	14,700	RD-1W	4	71,200	30,000	4,300
65 SRDA	11,400	74	17,100	RD-1W	4	71,200	35,000	4,800
65 SRDC	13,500	69	15,800	RD-1W	4	71,200	35,000	4,800
65 SREDC	15,600	76	17,400	RD-1W	4	71,200	40,000	5,300
69 SRDC	18,000	84	19,400	RD-1W	4	84,500	45,000	6,500
69 SREDC	21,000	95	22,000	RD-1W	4	84,500	50,000	7,200
82 SRC**	18,000	90	20,800	RD-1W	4	112,000	40,000	7,400
82 SRDA**	17,200	108	24,900	RD-2A	4	112,000	50,000	7,800
82 SRDC**	19,300	113	26,000	RD-2A	4	112,000	60,000	8,000
82 SREDA**	19,000	117	26,800	RD-2A	4	112,000	70,000	8,600
82 SREDC**	22,000	113	26,000	RD-2A	4	112,000	75,000	8,700
82 SRSDC**	25,500	130	30,000	RD-2A	2	112,000	90,000	10,000

SR – Standard Field
 SRD – Deep Field
 SRED – Extra Deep Field
 C – Copper Wound
 A – Aluminum Wound

* For proper Generator Sizing use cold watts and size equal to or larger than, to insure sufficient power for your magnet's operation.

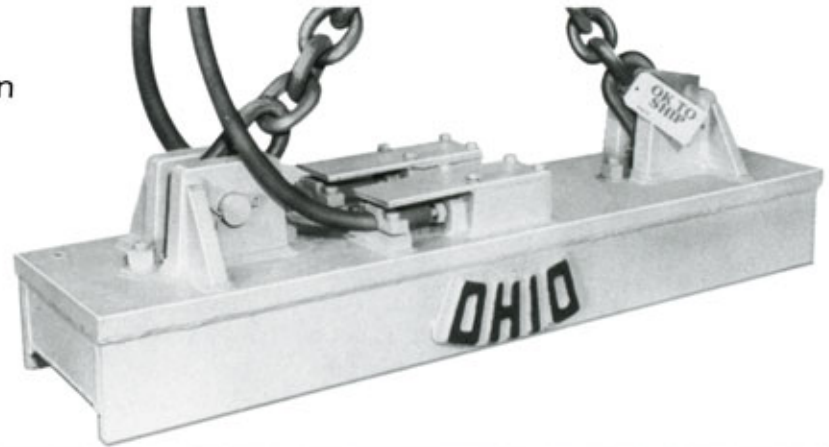
** Split voltages available on request

*** Description of material based on specifications for Iron & Steel Scrap, published by the Institute of Scrap Iron & Steel, Washington, D.C. Capacities are based on tests under optimum conditions. Performance will vary with specific operations.

OHIO STEEL MILL TYPE

HEAVY DUTY FABRICATED RECTANGULAR MAGNETS

- 230 VDC standard (special voltages available on request)
- Custom designed for specific applications in the handling of:
 - Sheets
 - Plates
 - Billets
 - Ingots
 - Structurals
 - Bars
 - Bundles
- Copper wound
- Hotwork designs available
- Low power consumption



STEEL PLATE LIFTING DATA

Plate Thickness (inches)	Longest Plate in Feet for One Magnet		Maximum No. of Plates Per Lift		Plate Area in Square Feet								A—Single Plate Lift		B—Multiple Plate Lift									
	Magnet Series				Magnet Size (inches)																			
	9"	16"	9"	16"	9 x 20		9 x 40		9 x 60		9 x 80		9 x 100		16 x 20		16 x 40		16 x 60		16 x 80		16 x 100	
				A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
.015	2.4	3.9	27	60	7	4	13	9	20	13	26	18	33	22	13	12	26	24	38	36	51	48	64	61
.031	3.3	5.5	13	30	9	6	19	13	28	19	37	26	47	32	19	16	36	31	54	47	72	62	91	78
.062	4.5	8.0	7	16	13	9	26	19	39	28	52	38	66	47	26	20	51	39	77	59	102	79	128	99
.125	6.5	10.8	4	9	19	14	37	28	56	41	74	55	93	69	36	25	72	50	109	75	145	100	181	125
.187	7.0	13.0	3	7	23	18	45	35	68	53	91	70	114	88	45	28	90	56	135	84	180	112	225	140
.25	9.0	15.5	3	5	26	20	53	40	79	61	105	81	131	101	52	29	104	58	156	88	208	117	260	146
.375	11.0	19.0	2	4	32	26	64	52	97	78	129	104	161	130	63	32	126	64	189	96	252	128	315	160
.5	13.0	22.0	1	3	37		74		112		149		186		73	33	146	66	219	100	292	133	365	166
.75	16.0	27.0	1	2	46		91		137		182		228		89	36	178	71	267	107	356	143	449	178
1.00	18.0	31.0	1	1	53		105		158		210		263		103		206		308		410		513	

SPECIFICATIONS*

Magnet Size (Inches)	Watts* (Cold)	Magnet Weight* (Lbs.)
6" Series		
6 x 12	90	75
6 x 24	225	125
6 x 36	350	200
9" Series		
9 x 20	625	360
9 x 40	1,250	670
9 x 60	1,875	980
9 x 80	2,500	1,290
9 x 100	3,125	1,600
16" Series		
16 x 20	1,020	750
16 x 40	2,040	1,360
16 x 60	3,060	2,015
16 x 80	4,120	2,800
16 x 100	5,100	3,500
20" Series		
20 x 40	2,920	2,000
20 x 50	3,540	2,525
20 x 60	4,650	3,050
20 x 80	5,520	4,100
20 x 100	6,700	5,150

Note: Above magnets feature copper windings. Magnet weight and watts may vary on special applications.

*These are representative specifications, only to be used as a guide. Actual magnet requirements will be based on type and size of material to be handled. (Consult factory.)

OHIO STEEL MILL TYPE

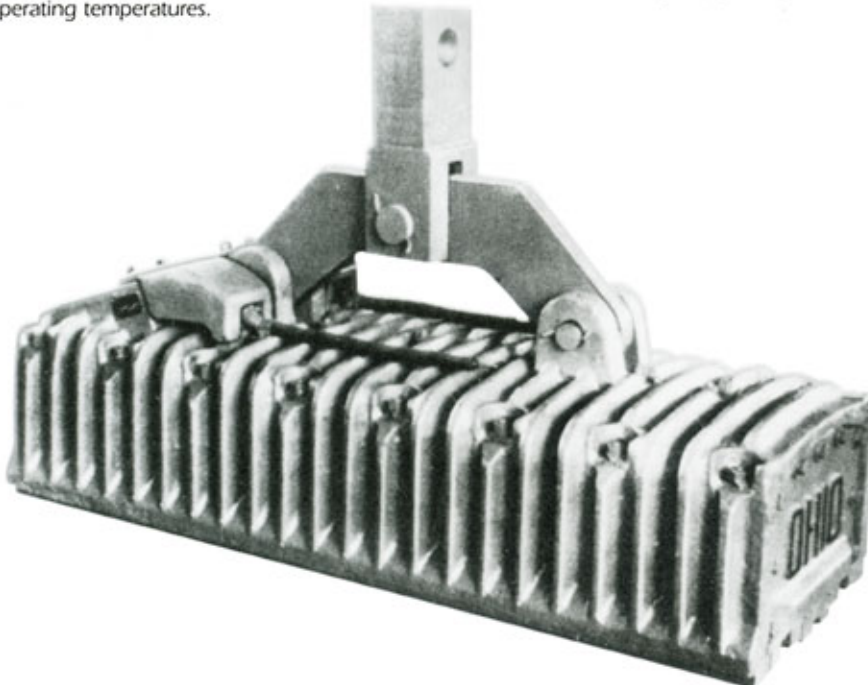
OHIO CAST-CASE RECTANGULAR MAGNETS

- 230 Volts DC standard
(special voltages available on request)
- Copper wound
- Designed specifically for the most severe mill applications, such as:
 - Slab turning
 - Hot slab handling (hot work construction)
 - Hot billet/bloom handling (hot work construction)
 - Hot structurals (hot work construction)
- Suited to the most extreme conditions

TECHNICAL SPECIFICATIONS

Magnet Size & Type	Magnet Weight	Cold Amps	Cold Watts	Controller Type	Min. Cable Size	Lifting Capacities*
19 x 32	950	8	1,850	CDS	14	7,000
19 x 42	1,700	12	2,700	CDS	14	12,000
19 x 52	1,550	13	3,000	CDS	14	15,000
19 x 73	2,850	15	3,500	CDS	14	28,000
20 x 66	3,000	19	4,500	CDS	12	25,000
21 x 85	3,850	25	5,800	RD-1W	12	32,000
21 x 108	4,500	35	8,050	RD-1W	10	40,000
26 x 42	3,000	21	4,900	RD-1W	12	18,000
26 x 54	4,500	30	6,900	RD-1W	10	25,000
26 x 62	4,800	30	6,900	RD-1W	10	30,000
26 x 68	5,900	37	8,500	RD-1W	10	35,000
28 x 74	6,850	40	9,700	RD-1W	10	47,000
30 x 48	4,500	23	5,400	RD-1W	10	22,000

*Material lifted must cover magnet face and be a minimum of 2" thick. Extremely rough, long or wide pieces must be derated. Amounts shown are safe lifts at operating temperatures.



OHIO STEEL MILL TYPE

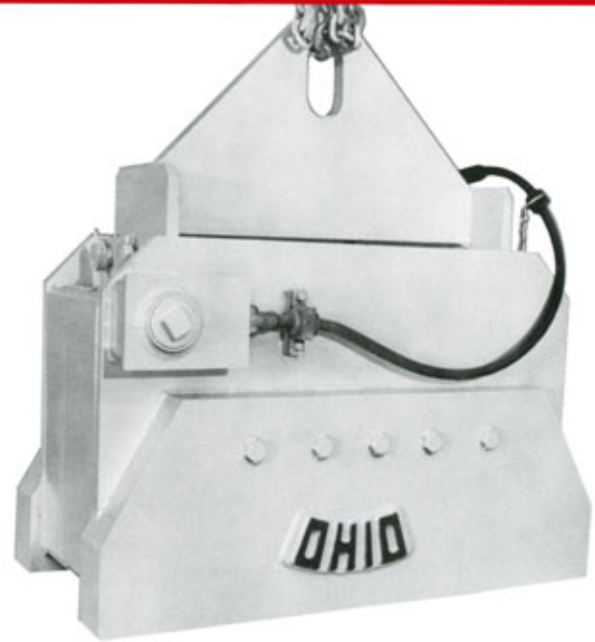
BI-POLAR MAGNETS STANDARD AND SPECIAL OHIO BI-POLAR MAGNET DESIGNS AND OPTIONS

Available in various standard widths—8", 12", 13", 19", and 22". Standard and special widths to meet any application. Renewable or auxiliary pole shoes can be supplied for all sizes. Shoes convert standard magnets for special handling—reconvert to regular magnets quickly and easily for routine material handling.

DESIGN ADVANTAGES

A unique advantage to Ohio magnets is their capability to handle higher temperature material than normally is the case with a standard rectangular magnet. The Ohio magnet coil is positioned farther away from the hot material. In addition, fewer square inches of magnet pole contacts the load. As a result, less heat is transferred to the magnet, thus it retains a greater percentage of its lifting ability with these higher temperature loads.

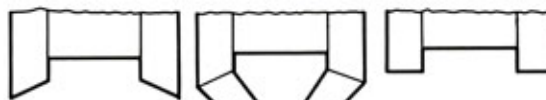
- 230 VDC standard
(special voltages available on request)
- Low power consumption
- The most versatile magnet design for mill application such as:
 - Plates
 - Billets (hot and cold)
 - Coils (eye vertical and horizontal)
 - Structurals
 - Bundles
 - Rebar
 - Rails
 - Tubes and pipes
- Custom designed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



Width	Plate Size	Pull* #/in. of length
8"	1½"	320
12"	2½"	450
13"	3"	515
19"	3¾"	940
22"	5"	1,010

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

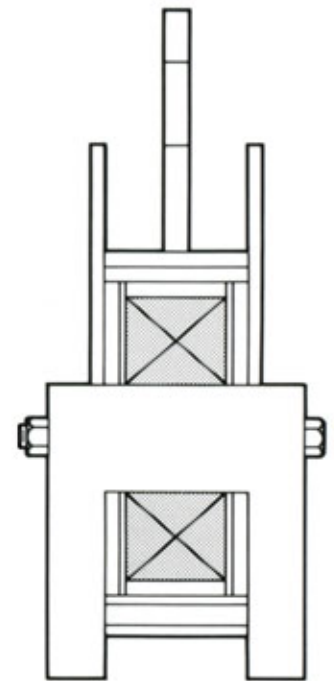
- Heavy duty magnet construction
- Specifically designed internal construction, the correct balance of wire to steel, develops maximum flux density for heavy-duty lifting with minimum power consumption
- 100% lifting area with a uniform field across the full length of the unit
- Pole lengths from 24"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



OHIO STEEL MILL TYPE

COIL HANDLING MAGNETS (CL TYPE)

FOR EYE VERTICAL COIL HANDLING

- 230 Volts DC (special voltages available on request)
- Custom designed for the handling of specifically sized coils (eye vertical)
- Designs available for up to 55 tons
- Heavy duty cast steel top plate construction

FOR DESIGN SPECIFICATION AND QUOTATION, SUPPLY:

1. Coil I.D., O.D., length maximums/minimums
2. Maximum coil weight
3. Maximum edge stagger
4. Duty cycle
5. Banding specification
6. Crane capacity
7. Coatings and coverings (if applicable)

