

## RECTANGULAR ELECTRO LIFTING MAGNET

### FEATURES

- Easy & Speedy handling of Plates / Billets / Bundles / Rails / Coils / Beams.
- Available in Normal duty & Heavy-duty series.
- Manufactured in monobloc casted construction or fabricated welded construction depending on budget and application.
- Choice of Aluminum or Copper conductor with special H-C class insulation.
- Completely sealed with thermal conductive compound and protected terminal box.
- Operates on 220 VDC.
- Duty cycle available from 50% to 75%.



### APPLICATIONS

- Useful for production and stock yards.
- Loading/unloading of steel plates/ billets/ bars / blooms from trucks.
- Handles slabs, blooms and ingots.
- Can be used with mobile cranes.
- Can be used in tandem from spreader beam.
- Special design for handling large coils.



### Normal Duty Construction

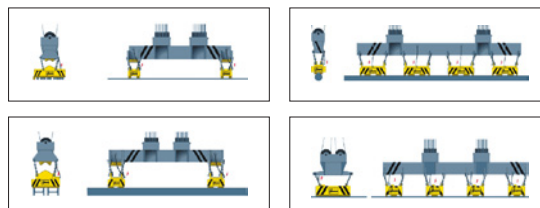
- Suitable for any ferrous material handling needs.
- For use in yards to heavy-duty steel industries.
- High-strength ribs and two protection shield of non-magnetic steel.
- Fabricated or Monobloc construction.
- 50 to 75% ED : To specify.

### Heavy Duty Construction

- Suitable for high temperature ferrous material handling at 600 deg.
- For use in heavy-duty steel industries.
- High-strength ribs and two protection shield of non-magnetic steel.
- High strength alloy steel suspension chains.
- Monobloc construction.
- 50 to 75% ED : To specify.

For billet handling - one variation	For coiled bar handling	For high temperature applications	For I Beam handling	For normal temperature applications	For slab turning applications

### Different configurations for different types of load



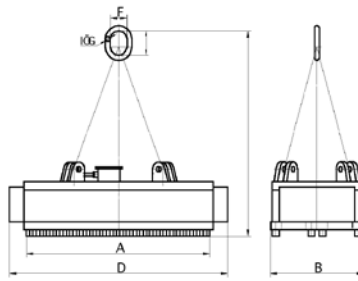
- Bi-polar magnet for coil handling upto dia 1200 x 3000mm long.



**EMLR-Billets**

**FEATURES**

- Special pole extension blocks can stretch out and draw back freely after contacting the attached material.
- Consequently it can obtain the maximum contacting area.
- Suitable for lifting many pieces of different length of blooming billets, pipe billets and stagger arrangement cast ingots.



25 Ton Billet Lifter undergo load test

Product Code : EMLR-B

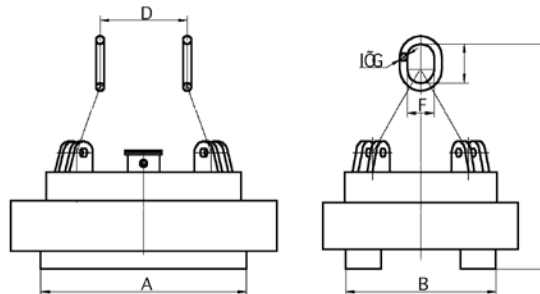
All dimensions are in mm

Model No.	Overall Dimension (mm)						Mass (kg)	Current (A)	power (kW)	Lifting Capacity Length(m) × number of piece				
	A	B	C	D	E	F				110×110 (mm)	130×130 (mm)	150×150 (mm)	200×200 (mm)	
Normal temperature type	EMLR-B-10060N	100	600	1180	1200	125	45	970	20.6	4.58	4.0×8	3.4×6	3.0×5	2.2×4
	EMLR-B-14060N	1400	600	1200	1610	125	38	1248	32.4	7.13	4.0×11	3.4×9	3.0×8	2.2×6
	EMLR-B-16065N	1600	650	1100	1800	125	45	1740	36.4	8	5.0×13	4.3×11	3.7×12	2.7×9
	EMLR-B-19065N	1900	650	1246	2100	175	50	1996	45.5	10	5.0×16	4.3×14	3.7×12	2.7×9
	EMLR-B-21070N	2100	700	1300	2300	175	50	2800	45.5	10	6.0×18	5.0×15	4.0×13	3.3×10
High temperature type	EMLR-B-10060H	100	600	1000	1200	125	38	1160	14.9	3.3	4×8	3.4×6	3.0×5	2.2×4
	EMLR-B-12084H	1200	840	1050	1510	125	38	1580	18.5	4.07	4×10	3.4×9	3.0×8	2.2×6
	EMLR-B-14060H	1400	600	1025	1610	125	38	1300	25	5.5	4×11	3.4×9	3.0×8	2.2×6
	EMLR-B-16065H	1600	650	1200	1800	125	38	1800	30.5	6.7	5.0×13	4.3×11	3.7×10	2.7×7
	EMLR-B-16090H	1600	900	1300	1860	175	45	3650	25.7	5.65	5.0×14	4.3×11	3.7×10	3.0×7
	EMLR-B-19065H	1900	650	1300	2100	175	50	2100	36.4	8	5.0×16	4.3×14	3.7×12	2.7×9
EMLR-B-21070H	2100	700	1400	3200	175	50	3000	36.4	8	6.0×18	5.0×15	4.5×13	3.3×10	

**EMLR-Bundles**

**FEATURES**

- This series is designed with a strong permeable magnetic circuit which can penetrate several layers of air-gap
- Suitable for lifting and transferring bundled bar material as well as heavy duty steel ingots or steel moulds.



Single bundle lifter

All dimensions are in mm

Product Code : EMLR-B'

Model No.	EMLR-B'-11060L/2-6	EMLR-B'-12060L/2-6	EMLR-B'-15090L/2-6	EMLR-B'-15095L/2-6	EMLR-B'-18060L/2-6	EMLR-B'-26060L/2-6
overall dimension (mm)	A	1140	1200	1500	1500	2600
	B	600	600	930	950	605
	C	1050	1100	1020	1020	1750
	D	400	400	650	650	1200
	E	210	210	250	250	280
	F	125	125	175	175	175
	G	40	40	50	50	70
Mass (kg)		1515	1680	1980	2160	3139
Cold-state current(A)		37.5	40.4	43.1	43.2	51.5
Cold-state Power(kW)		8.25	8.89	9.55	9.5	11.3
Examples for lift capacity of four unit	Bar material Diameter	15 ~ 51	15 ~ 51	12 ~ 50	15 ~ 51	15 ~ 51
	Single bundle diameter	230 ~ 300	300	300 ~ 350	300	230 ~ 300
	length	6~12m	8000	9~12m	9~12m	6~12m
	Weight per bundle	2~3	2.6	2~3.5	2.5	2
	Bundle amount for lifting	3	3	2~4	4	6

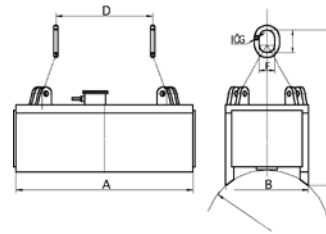


RECTANGULAR ELECTRO LIFTING MAGNET

## EMLR-Coils

### FEATURES

- Special magnetic pole is suitable for coiled bar of different diameter.
- The choice of electromagnet depends on the length of coiled bar.
- A long enough electromagnet can lift several coils of coiled bar in the direction of the length.



Product Code : EMLR-C

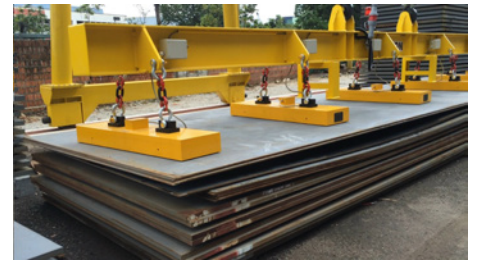
All dimensions are in mm

Model No.	Overall Dimension (mm)							Mass(kg)	current(A)	power(KW)
	A	B	C	D	E	F	G			
EMLR-C-10054	1000	540	1250	500	180	110	32	1520	30	6.6
EMLR-C-16054	1600	540	1210	700	180	110	32	2350	45.5	10
EMLR-C-20054	2000	540	1200	700	180	110	32	2480	58.2	12.8
EMLR-C-26054	2600	540	1220	800	210	125	40	3210	68.2	15
EMLR-C-30054	3000	540	1230	100	210	125	40	3800	80	17.7
EMLR-C-34054	3400	540	1230	1200	210	125	40	4250	86.4	19
EMLR-C-36054	3600	540	1250	1300	250	175	50	4450	89.5	19.7
EMLR-C-40054	4000	540	1250	1550	250	175	50	5000	99.5	21.9
EMLR-C-46054	4600	540	1250	1800	250	175	50	5650	120	26.4
EMLR-C-55054	5500	540	1250	3000	250	175	50	7100	126.4	27.8

## EMLR- Multiple Plates

### FEATURES

- Designed for lifting and transporting steel plates of medium-thicknesses safely, accurately and quickly.
- A combination of several electromagnets when handling long steel plates are used to overcome possible bending and deforming that may happen to affect safe transportation.
- High temperature type products for handling steel plates below 700°C can be designed and manufactured upon specific requirements of the customers.



Product Code : EMLR-MP

All dimensions are in mm

Width of steel plate	1500 (mm)								2500 (mm)								4000 (mm)							
	Pieces								Pieces								Pieces							
Model No.	6	8	10	12	16	20	32	6	8	10	12	16	20	32	6	8	10	12	16	20	32			
EMLR-MP-10535	3	3	3	3	2	2	1	1	1	1	1	1	1	1	/	/	/	/	1	1	1	1		
EMLR-MP-14035	4	4	3	3	2	2	1	3	2	2	2	2	1	1	/	/	/	/	1	1	1	1		
EMLR-MP-17535	4	4	3	3	2	2	1	4	3	3	3	2	2	1	/	/	1	1	1	1	1	1		
EMLR-MP-21035	4	4	4	3	2	2	1	4	3	3	3	2	2	1	/	2	2	2	1	1	1	1		
EMLR-MP-24035	4	4	4	3	2	2	1	4	3	3	3	2	2	1	2	2	2	2	2	1	1	1		
EMLR-MP-12040	6	4	4	4	3	3	1	3	3	3	2	2	2	1	2	1	1	1	1	1	1	1		
EMLR-MP-16040	7	5	5	5	3	3	1	6	4	4	4	3	2	1	2	1	1	2	2	2	2	1		
EMLR-MP-20040	7	5	5	5	3	3	1	6	5	4	4	3	3	1	2	2	3	3	2	2	2	1		
EMLR-MP-24040	7	5	5	5	3	3	1	7	5	5	4	3	3	1	3	3	3	3	3	2	2	1		

Model No.	Overall Dimension (mm)							Mass (kg)	Power (kW)	Lifting Width (mm)				
	A	B	C	D	E	F	G			6	8	10	12	16
EMLR-MP-9030	900	300	900	300	110	180	32	185	0.41	2300	2700	3000	3200	3600
EMLR-MP-10535	1050	350	960	400	110	180	32	330	0.9	2650	3150	3350	3550	4050
EMLR-MP-14035	1400	350	940	500	110	180	32	430	1.2	3000	3500	3700	3900	4400
EMLR-MP-17535	1750	350	940	700	110	180	32	510	1.5	3350	3850	4050	4250	4750
EMLR-MP-21035	2100	350	920	800	110	180	32	600	1.8	3850	4200	4400	4600	5100
EMLR-MP-24535	2450	350	980	900	110	180	32	720	2.5	4200	4550	4750	4950	5450
EMLR-MP-12040	1200	400	1017	400	110	180	32	550	3	3000	3500	3700	4000	4500
EMLR-MP-16040	1600	400	996	700	110	180	32	690	3.2	3400	3900	4100	4400	4900
EMLR-MP-20040	2000	400	970	800	110	180	32	840	5	3800	4300	4500	4800	5300
EMLR-MP-24040	2400	400	890	700	110	180	32	910	6	4200	4700	4900	5200	5700
EMLR-MP-13042	1260	420	1040	500	110	180	32	650	2.4	3060	3560	3760	4060	4560
EMLR-MP-17042	1680	420	1045	700	110	180	32	850	3.7	3480	3980	4180	4480	4980
EMLR-MP-21040	2100	420	1010	800	110	180	32	1050	4	3900	4400	4600	4900	5400
EMLR-MP-25042	2520	420	1050	900	110	180	32	1250	4.8	4320	4820	5020	5320	5820

