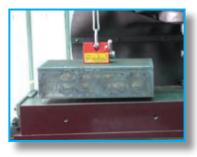
# ALL NEW MODEL! LIFTING MAGNET ELM Series





Convenient and efficiency for makes more profit



Light weight Less dimension Lower price

More power. More safety

Safety Factor **3.5 times** 



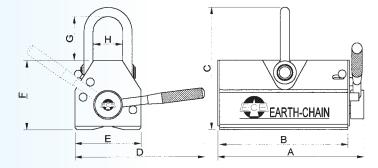




Power that works. magnetic products 2009.02



### 6 models are available



### **DIMENSIONS**

| MODEL    | Cap  | acity |     | 4    | E   | 3           | (   | С    | [   | )    | E   | Ξ    | F   | =    | (   | G    | ŀ   | 4    | We  | ight | SAFETY     |
|----------|------|-------|-----|------|-----|-------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|------------|
|          | kg   | lbs   | mm  | inch | mm  | inch        | mm  | inch | mm  | inch | mm  | inch | mm  | inch | mm  | inch | mm  | inch | kg  | lbs  | FACTOR     |
| ELM-100  | 100  | 220   | 107 | 4.2  | 84  | 3.3         | 120 | 4.7  | 125 | 4.9  | 60  | 2.4  | 71  | 2.8  | 41  | 1.6  | 30  | 1.2  | 2.5 | 5.5  |            |
| ELM-300  | 300  | 660   | 180 | 7.1  | 155 | <b>6</b> .1 | 156 | 6.1  | 185 | 7.3  | 90  | 3.6  | 93  | 3.7  | 51  | 2.0  | 41  | 1.6  | 8.6 | 18.9 |            |
| ELM-600  | 600  | 1320  | 255 | 10   | 224 | 8.8         | 212 | 8.3  | 260 | 10.2 | 115 | 4.5  | 120 | 4.7  | 77  | 3.0  | 52  | 2.0  | 21  | 46   | × 3.5times |
| ELM-1000 | 1000 | 2200  | 280 | 11   | 245 | 9.6         | 286 | 11.3 | 371 | 14.6 | 165 | 6.5  | 169 | 6.7  | 97  | 3.8  | 87  | 3.4  | 46  | 101  | × 5.5times |
| ELM-2000 | 2000 | 4400  | 422 | 16.6 | 380 | 15          | 348 | 13.7 | 512 | 20.2 | 216 | 8.5  | 215 | 8.5  | 105 | 4.1  | 121 | 4.8  | 118 | 259  |            |
| ELM-3000 | 3000 | 6600  | 566 | 22.3 | 530 | 20.9        | 400 | 15.7 | 770 | 30.3 | 216 | 8.5  | 222 | 8.7  | 147 | 5.8  | 80  | 3.2  | 181 | 399  |            |

# ELM Series

#### **FEATURES**

1.Made by "Rare Earth" magnet with technology of improvement.

2.All new models with "light weight" "less dimension" and "lower price".

- 3.Made by permanent magnet, require no power supply, thus eliminating hazards due to failure wiring system as electric type.
- 4.It features powerful magnetic force, with 3.5 times safety coefficient makes more safety in use.

### APPLICATIONS

Suitable for move plate steel, block steel and round steel, such as machine parts, press molds, plastic molds and iron material .....etc.

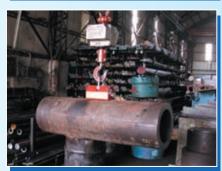


## **EXAMPLE IN USE**









### **OPERATIONS**

With ON/OFF switch, it is very easy and convenient to operate. See as the example pictures as below.







Notice: Never moves the handle to "ON" side, except on an iron object of holding.

# ELM Series

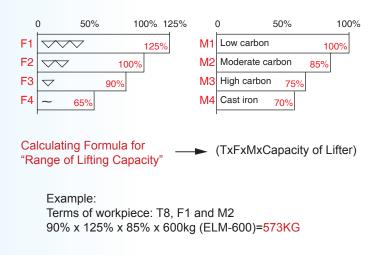
### LOAD OF HOLDING POWER

The load of holding power will changes depending on the thickness, attractive face roughness and quality of material and clearance between the workpiece with magnet. (See as the graphs as below)

## Chart of difference in holding power by thickness

|            | Thick | iness    | Percentage of lifting capacity |          |          |         |         |         |  |  |  |  |
|------------|-------|----------|--------------------------------|----------|----------|---------|---------|---------|--|--|--|--|
|            | mm    | inch     | ELM-3000                       | ELM-2000 | ELM-1000 | ELM-600 | ELM-300 | ELM-100 |  |  |  |  |
| T1         | up 60 | up 2.36" | 100%                           | 100%     |          |         |         |         |  |  |  |  |
| T2         | 55    | 2.16"    | 95%                            | 100%     |          |         |         | 100%    |  |  |  |  |
| Т3         | 50    | 1.97"    | 90%                            | 95%      | 100%     |         | 100%    |         |  |  |  |  |
| T4         | 45    | 1.77"    | 85%                            | 90%      |          | 100%    |         |         |  |  |  |  |
| T5         | 40    | 1.57"    | 80%                            | 85%      |          |         | 100%    |         |  |  |  |  |
| <b>T</b> 6 | 35    | 1.38"    | 70%                            | 75%      | 90%      |         |         |         |  |  |  |  |
| T7         | 30    | 1.18"    | 60%                            | 65%      | 80%      |         |         |         |  |  |  |  |
| Т8         | 25    | 0.98"    | 50%                            | 55%      | 70%      | 90%     |         |         |  |  |  |  |
| Т9         | 20    | 0.79"    | 40%                            | 45%      | 60%      | 75%     | 90%     |         |  |  |  |  |
| T10        | 15    | 0.59"    | 30%                            | 35%      | 50%      | 60%     | 70%     |         |  |  |  |  |
| T11        | 10    | 0.39"    | 20%                            | 25%      | 35%      | 45%     | 50%     | 70%     |  |  |  |  |
| T12        | 5     | 0.20"    | 10%                            | 15%      | 20%      | 25%     | 30%     | 40%     |  |  |  |  |

Chart of difference in holding power by attractive face roughness For all models Chart of difference in holding power by material quality For all models



### **SAFETY FACTOR x 3.5 times**

The capacity of magnet indicated as 1/3.5 of holding power, it means the real holding power is 3.5 times of capacity. For example the capacity of ELM-600 is 600kg (1320lbs) but the real holding power is 2100kg (4620lbs).

The large safety coefficient is concideration for ensuring the use in safety.

### **MAXIMUM LIFTING RANGE**

| Form of material | Steel pla    | te 💽 | z oo                    |       | R    | ound steel       |        |        |                   |      |
|------------------|--------------|------|-------------------------|-------|------|------------------|--------|--------|-------------------|------|
| MODEL            | Max.<br>capa |      | Min. thickness required |       |      | lifting<br>acity | Max. d | ameter | Maximum<br>length |      |
|                  | kg           | lbs  | mm                      | inch  | kg   | lbs              | mm     | inch   | mm                | inch |
| ELM-100          | 100          | 220  | 15                      | 0.59" | 45   | 99               | 150    | 5.9"   | 1000              | 40"  |
| ELM-300          | 300          | 660  | 25                      | 0.98" | 135  | 300              | 250    | 9.8"   | 1500              | 60"  |
| ELM-600          | 600          | 1320 | 30                      | 1.18" | 270  | 600              | 350    | 13.8"  | 2000              | 80"  |
| ELM-1000         | 1000         | 2200 | 40                      | 1.57" | 450  | 990              | 450    | 17.8"  | 2500              | 98"  |
| ELM-2000         | 2000         | 4400 | 55                      | 2.16" | 900  | 1980             | 550    | 21.6"  | 3000              | 118" |
| ELM-3000         | 3000         | 6600 | 60                      | 2.36" | 1350 | 2970             | 650    | 25.6"  | 3500              | 138" |

The above diagrams is only for reference. The operator should be test and chech if it is in safe range before lift away the workpiece of steel. Other wise, it will be not responsibility by producer for any accidents.



EZ-Lift Material Handing Accessories

#### ELM-V Vertical Lifters

(The device included a Lifting Magnet)



| Madal     | Size L           | Weight           |    |     |
|-----------|------------------|------------------|----|-----|
| Model     | mm               | inch             | kg | lbs |
| ELM-300V  | 953 × 216 × 254  | 37.5 × 8.5 × 10  | 26 | 57  |
| ELM-600V  | 1156 × 272 × 254 | 45.5 × 10.7 × 10 | 39 | 86  |
| ELM-1000V | 1207 × 343 × 305 | 47.5 × 13.5 × 12 | 58 | 128 |

- Fast loading for vertical transport
- One person can load and unload

Used for vertical transport of plate stock for fabricating, machining, etc.

• No dangerous straps & slings



Position lifter on stock and turn on magnet. Hoist into vertical position for transport. Always follow operating instructions included.

|           | Plate Size ( L× W × H min./max. ) |       |            |           |            |             |               |             |  |  |  |  |
|-----------|-----------------------------------|-------|------------|-----------|------------|-------------|---------------|-------------|--|--|--|--|
| Model     | Cap                               | acity | L (min.    | /max.)    | W (min     | ./max.)     | H (min./max.) |             |  |  |  |  |
|           | kg                                | lbs   | mm         | inch      | mm         | inch        | mm            | inch        |  |  |  |  |
| ELM-300V  | 300                               | 660   | 200 / 1500 | 8 / 60    | 300 / 800  | 11.8 / 31.5 | 6 / 150       | 0.25 / 5.9  |  |  |  |  |
| ELM-600V  | 600                               | 1320  | 300 / 1800 | 12 / 72   | 300 / 1000 | 11.8 / 39.4 | 8 / 250       | 0.31 / 9.8  |  |  |  |  |
| ELM-1000V | 1000                              | 2200  | 300 / 2000 | 12.5 / 79 | 300 / 1000 | 11.8 / 39.4 | 10 / 300      | 0.39 / 11.8 |  |  |  |  |



#### ELM-L Spreader Bars

(This product doesn't include permanent lifting magnet "ELM Series", lifting magnets are optional according to your applications.)

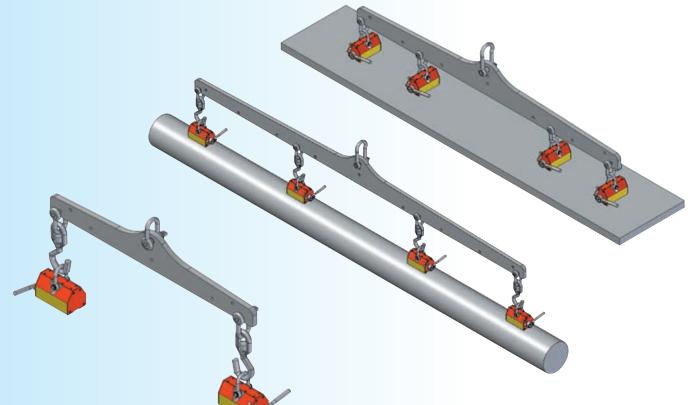
• For better overall balance

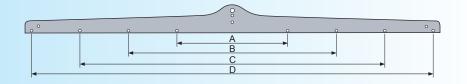
**Keeps large materials** 

• Use with multiple lifters

balanced for safer transport.

• Lifter span adjustable





| Model     | A   |      | В    |      | С    |      | D    |      | Weight |     |
|-----------|-----|------|------|------|------|------|------|------|--------|-----|
| Widder    | mm  | inch | mm   | inch | mm   | inch | mm   | inch | kg     | lbs |
| ELM-1000L | 600 | 23.6 | 900  | 35.4 |      |      |      |      | 16     | 35  |
| ELM-1600L | 700 | 27.6 | 1100 | 43.3 | 1500 | 59.1 |      |      | 25     | 55  |
| ELM-2000L | 700 | 27.6 | 1300 | 51.2 | 1900 | 74.8 |      |      | 57     | 125 |
| ELM-2600L | 700 | 27.6 | 1300 | 51.2 | 1900 | 74.8 | 2500 | 98.4 | 75     | 165 |
| ELM-3000L | 800 | 31.5 | 1500 | 59.1 | 2200 | 86.6 | 2900 | 114  | 86     | 189 |

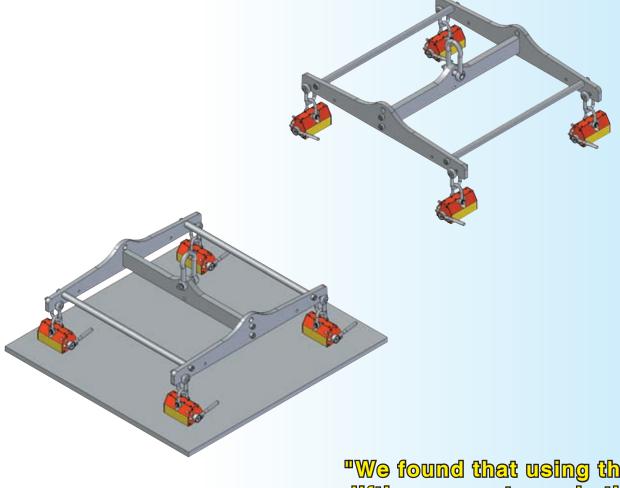
Spreader bars help keep large or irregular loads under control during transport. You can increase your lifting power by adding more magnets.

# ELM-H Series

#### ELM-H Spreader Bars set System

(This product doesn't include permanent lifting magnet "ELM Series", lifting magnets are optional according to your applications.)

- Loading large plate on the table with a fork lift was difficult time consuming and posed a potential safety hazard.
- ELM-L Workholding to design a system for a single operator to use permanent lifting magnets and a special spreader bar to handle a balanced load.



"We found that using the lifting magnets made the Process simpler, safer and faster for a single operator to use."

This product is custom-made, please specify the dimension and weight of your workpiece when place orders.