

NMI

Electro-Permanent ***Lifting Magnet***

Steel Product Handling

SafetyLift™

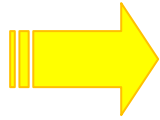
Low Power Consumption ... Extra Safety



Nippon Magnetics, Inc.
<http://www.nipponmagnetics.com>

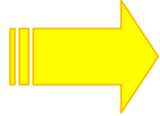
• Characteristics of SafetyLift™®

- No Electricity while in motion



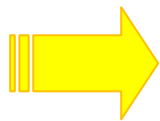
- Pulse of electricity energizes and de-energizes. 1/5 of the power compared to other electro-magnet systems.
- No burnout or release worry on long-term continuous use or loss of power.

- No UPS System Requirement



- Once energized, magnets are "ON" and their lifting ability will not be affected by electrical power failure.
- Cost savings with no UPS system, battery change or maintenance.

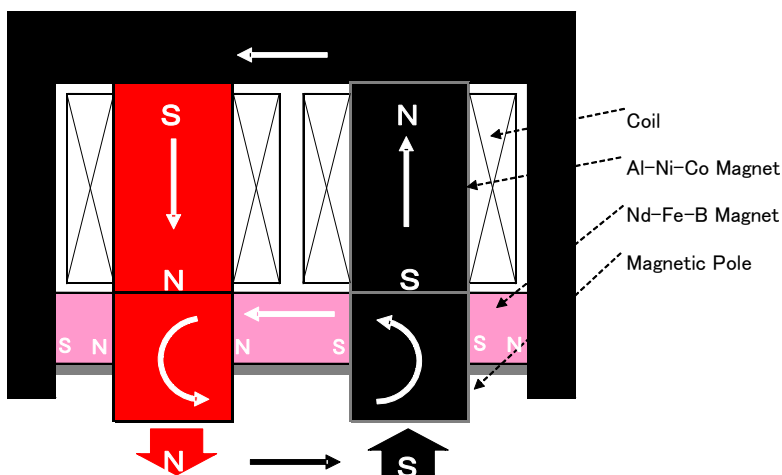
- Small size, Big capability



- Powerful combination of Al-Ni-Co and Nd-Fe-B magnets.
- Combination of magnets increases the lifting power compared to ordinary Al-Ni-Co electro-permanent magnet system.

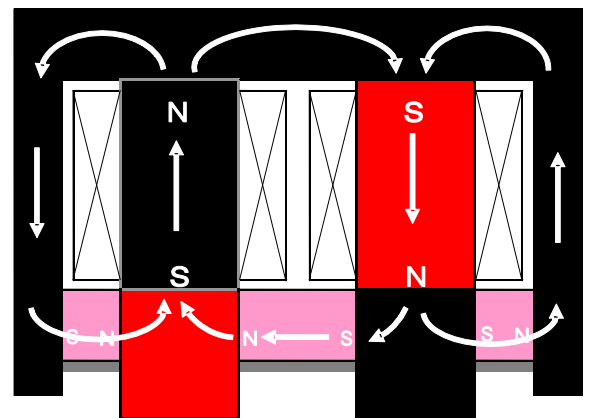
• SafetyLift™ Operating Principle

Energized

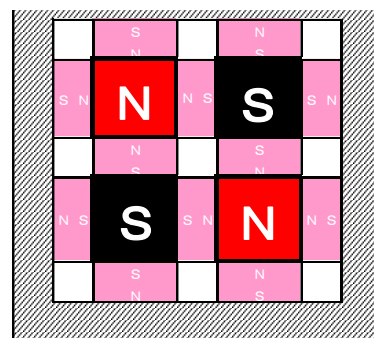


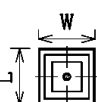
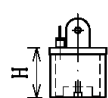
- A momentary pulse of electricity to the coil
- Homopolarity between Al-Ni-Co & Nd-Fe-B Magnets
- Strong magnetic flux from the magnetic pole to hold

De-Energized

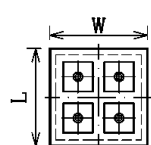
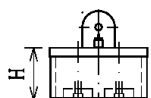


- Opposite direction pulse of electricity to the
- Heteropolarity between Al-Ni-Co & Nd-Fe-B
- Magnetic flux creates closed circuit & remains in loop

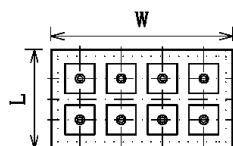
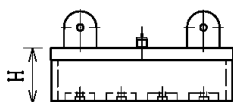




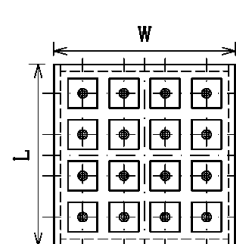
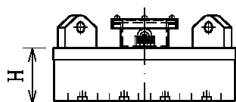
HDL-□ x1S



HDL-□ x4S



HDL-□ x8R



HDL-□ x16S 型

Model	Size(mm)			WT (kg)	Loading (kg)
	W	L	H		
HDL-50×1S	136	136	123	15	120
HDL-50×4S	211	211	123	35	350
HDL-50×16S	427	427	130	150	1400
HDL-50×8R	427	237	130	85	700

Model	Size(mm)			WT (kg)	Loading (kg)
	W	L	H		
HDL-80×1S	192	192	170	40	400
HDL-80×4S	332	332	178	110	1000
HDL-80×16S	618	618	190	500	4000
HDL-80×8R	618	338	190	270	2000

(1)The Loading is calculated by 1/3 of the maximal lifting force when loaded with a steel plate of 30mm in thick.

(2)We also make other types of Lifting Magnet in different shape, size and loading capacity.

(3)We also make the type of Electro-Permanent Lifting Magnet equipped with a battery. Please feel free to ask us if you have any questions.

- Electro-Permanent Lifting Magnet
- Remote Control Battery Unit
- Large Scale Unit

Permanent Lifting Magnet Series

- Steel Plate Holding Unit
- Steel Scrap Lifting Unit

Custom steel plate holding units available upon request.

NMI

Specialized manufacturer of industrial magnetic products

Head Office/Factory

Soira 716-2, Kitatani, Daifu-City, Fukuoka 818-0114
TEL 092-922-7161 FAX 092-922-7162

Tokyo Sales Office

Tabata Fukuda Bldg., 1-7-Higahi-Tabata, Kita-ku, Tokyo 114-0013
TEL 03-3895-6271 FAX 03-3895-8456

Osaka Sales Office

Shin Osaka Daido Bldg., Kawahigashi 4-6-3, Yodogawa-ku, Osaka-City 532-0012
TEL 06-6304-6668 FAX 06-6304-6485

Nagoya Sales Office

Ibuki Bldg., Nozomigaoka 273-1, Meito-ku, Nagoya-City 465-0046
TEL 052-211-5121 FAX 052-219-2166

NIPPON MAGNETICS USA, INC.

20695 W Western Suite #242 Torrance, CA 90501
TEL 310-533-8290 FAX 310-533-8295

Inquiry: