

## PowerLift® Magnets

These compact yet powerful Rare Earth permanent lift magnets can be used on flat or round surfaces and contain an internal release On/Off device that does not contact or damage the surface of the part being lifted. Permanent magnetic lifts eliminate the fear of dropping the load being lifted due to power failures.

The locking system is performed by first pulling on the handle to release the lock pin, then rotating the handle to the desired position. The locking feature prevents the handle from being bumped partially "On" and avoids giving the operator a false feeling that the magnet is holding safely.

### Features

- On/Off Rare Earth design
- RFID Enabled
- Lifts flat or round loads (see chart below)
- Easy internal manual release does not contact the load
- Heat resistant up to 180°F (82°C)
- Handle locks in both On and Off position
- 3:1 Design Factor
- **CONFORMS TO ASME B30.20 STANDARDS**



Picture above: A customized version of IMI's Vertical Lift Adaptor featuring two PowerLift® magnets, designed to lift ferrous metal from horizontal to vertical orientation or vice versa. Adjustable for various widths, thicknesses and shapes. Ask for Tech Sheet MG-02G for specifications.

|           | Lift |      | Overall  |          | Magnet   |          |          | Handle   |          | Bail     |          |           |
|-----------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Model No. | LBS  | KG   | Ht. (in) | Ln. (in) | Ht. (in) | Wd. (in) | Ln. (in) | Ln. (in) | Th. (in) | Ht. (in) | Wd. (in) | Wt. (lbs) |
| PNL0250   | 250  | 113  | 6-5/8    | 5        | 2-5/8    | 2-5/8    | 3-5/8    | 5-7/8    | 3/16     | 1-3/8    | 1-1/2    | 7         |
| PNL0800   | 800  | 363  | 8-7/8    | 7-7/8    | 3-7/8    | 3-5/8    | 6-3/8    | 6-7/8    | 1/2      | 2-3/8    | 1-3/4    | 22        |
| PNL1600   | 1600 | 726  | 8-7/8    | 10-3/4   | 4-3/4    | 4-7/8    | 9-1/8    | 6-3/4    | 5/8      | 3-1/2    | 2-1/4    | 53        |
| PNL2500   | 2500 | 1134 | 8-7/8    | 12-5/8   | 6-1/2    | 7-1/8    | 10-5/8   | 10-1/8   | 3/4      | 4-3/4    | 3-3/4    | 110       |
| PNL5000   | 5000 | 2268 | 18       | 16-1/2   | 8-3/8    | 9-1/4    | 14-7/8   | 16-3/4   | 7/8      | 6        | 4-3/4    | 325       |
| PNL6600   | 6600 | 2993 | 22-1/4   | 20       | 10-1/4   | 11-1/4   | 18-1/16  | 20-5/8   | 1-7/16   | 7-1/4    | 5-3/4    | 485       |

| Lifting Value in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use |              |              |              |              |             |             |             | Round Lifting Applications |                |               |
|---|--------------|--------------|--------------|--------------|-------------|-------------|-------------|----------------------------|----------------|---------------|
| Model No.   | 1/4" (6' Lg) | 3/8" (8' Lg) | 1/2" (8' Lg) | 3/4" (8' Lg) | 1" (10' Lg) | 2" (10' Lg) | 3" (10' Lg) | Lift - lbs (kg)            | Min. Dia. (in) | Min. Th. (in) |
| PNL0250   | 180 (81)     | 250 (113)    | 250 (113)    | 250 (113)    | 250 (113)   | 250 (113)   | 250 (113)   | 125 (57)                   | 2              | 1/2           |
| PNL0800   | 270 (122)    | 500 (226)    | 615 (279)    | 800 (363)    | 800 (363)   | 800 (363)   | 800 (363)   | 400 (181)                  | 3              | 1/2           |
| PNL1600   | CF           | CF           | 800 (362)    | 1600 (726)   | 1600 (726)  | 1600 (726)  | 1600 (726)  | 800 (363)                  | 4              | 1             |
| PNL2500   | NA           | NA           | CF           | CF           | 1490 (675)  | 2500 (1134) | 2500 (1134) | 1250 (567)                 | 5              | 2             |
| PNL5000   | NA           | NA           | NA           | NA           | CF          | 2625 (1190) | 5000 (2268) | 2500 (1134)                | 14             | 4             |
| PNL6600   | NA           | NA           | NA           | NA           | NA          | NA          | 6600 (2993) | 3300 (1496)                | CF             | CF            |

**NOTE:** Lifting Values for the PowerLift® Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet bending, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Item Lifting Values are based on ideal conditions. Pipe length, wall thickness, diameter and surface condition can all affect the magnet's performance. Please consult the factory before specifying these magnets for use on round materials. \*These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part. CF = Consult Factory NA = Not Applicable (Magnets listed will not turn "ON" on specified material thicknesses.)

# Permanent Rare Earth Magnetic Lifts



## VersaLift™ Magnets



Compact and powerful Rare Earth permanent lift magnet for use on flat or round surfaces. Contains an internal On/Off release device that does not contact or damage the surface of the part. More features than other lifts and manufactured in the USA (USA M.A.D.E.™).

### Features

- Rare Earth Magnet with a Locking On/Off handle & Test load feature
- Supports custom pole shoes
- Lifts flat or round loads (see chart below)
- Heat resistant up to 180°F (82°C)
- Stationary Lift Lug(s)
- Vertical Lift Capable using the optional Lift Lug attachment
- Embedded RFID Chip
- 3:1 Design Factor
- **CONFORMS TO ASME B30.20 STANDARDS**

To operate Test Feature, pull spring loaded handle out and rotate it to the "TEST" position. Lift load approximately 2-3" to verify the magnet has the capacity to lift your load. Once verified, place load back down and turn the handle to the "ON" position. **Never complete entire lift operation in "TEST" position.**



Shown with optional Vertical Lifting Lug attachment

| Model No. | Lift |      | Overall  |          | Magnet   |          |          | Handle   |          | Bail     |          |           | Lift Lug Adaptor |          |           |
|-----------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------------|----------|-----------|
|           | LBS  | KG   | Ht. (in) | Ln. (in) | Ht. (in) | Wd. (in) | Ln. (in) | Ln. (in) | Th. (in) | Ht. (in) | Wd. (in) | Wt. (lbs) | Part No.         | Ln. (in) | Wt. (lbs) |
| VL0275    | 275  | 124  | 6-1/2    | 5        | 3-3/4    | 5        | 3-5/8    | 6        | 3/4      | 2-1/4    | 1-3/4    | 10        | VLLUG1           | 4-5/16   | 1.15      |
| VL0600    | 600  | 272  | 6-1/2    | 7        | 3-3/4    | 5        | 5-5/8    | 6        | 3/4      | 2-1/4    | 1-3/4    | 18        | VLLUG1           | 4-5/16   | 1.15      |
| VL1200    | 1200 | 544  | 6-1/2    | 11       | 3-3/4    | 5        | 10       | 6        | 3/4      | 2-1/4    | 1-3/4    | 34        | VLLUG1           | 4-5/16   | 1.15      |
| VL2500    | 2500 | 1134 | 10-1/2   | 14-1/2   | 5-1/2    | 7        | 13       | 8-3/4    | 3/4      | 2-1/4    | 1-3/4    | 119       | VLLUG2           | 4-5/8    | 2.40      |

| Model No. | Lifting Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use |                  |                  |                  |                 |                 |                 |
|-----------|---|------------------|------------------|------------------|-----------------|-----------------|-----------------|
|           | 1/4" (6' Length)  | 3/8" (8' Length) | 1/2" (8' Length) | 3/4" (8' Length) | 1" (10' Length) | 2" (10' Length) | 3" (10' Length) |
| VL0275    | 150 (68)  | 220 (99)         | 240 (108)        | 250 (113)        | 275 (124)       | 275 (124)       | 275 (124)       |
| VL0600    | 260 (117)   | 435 (197)        | 525 (238)        | 550 (249)        | 600 (272)       | 600 (272)       | 600 (272)       |
| VL1200    | NA  | 755 (342)        | 960 (435)        | 1165 (528)       | 1200 (544)      | 1200 (544)      | 1200 (544)      |
| VL2500    | NA  | NA               | NA               | 1700 (771)       | 1800 (816)      | 2500 (1134)     | 2500 (1134)     |

| Model No. | Round Lifting Applications |                         |                      | Vertical Lift (Flat Only) |                   |
|-----------|----------------------------|-------------------------|----------------------|---------------------------|-------------------|
|           | Maximum Lift - lbs (kg)    | Maximum Lift at Minimum | Diameter / Thickness | Lift - lbs (kg)           | Minimum Thickness |
| VL0275    | 137 (49)                   | 50 (22)                 | 2.00 in. / 0.12 in.  | 68 (30)                   | 1.00 in.          |
| VL0600    | 300 (136)                  | 130 (58)                | 2.00 in. / 0.12 in.  | 150 (68)                  | 1.00 in.          |
| VL1200    | 600 (272)                  | 600 (272)               | 4.00 in. / 0.50 in.  | 300 (136)                 | 1.00 in.          |
| VL2500    | 1250 (567)                 | 1250 (567)              | 8.00 in. / 1.00 in.  | 625 (283)                 | 3.00 in.          |

**NOTE:** Lifting Values for the VersaLift™ Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet bending, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Lifting Values are based on ideal conditions. Consult the factory before specifying these magnets for use on round materials. \*Max. sheet lengths are selected due to sag characteristics of specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part. CF = Consult Factory, NA = Not Applicable (Magnets will not turn "ON" with stated thicknesses.)

# Permanent Rare Earth Magnetic Lifts



## DynamicLift™ Magnets

These lightweight and powerful Rare Earth permanent lift magnets, featuring Magswitch® technology, can be used on flat or round surfaces and contain an internal release On/Off device that does not contact or damage the surface of the part being lifted. DynamicLifts™ have superior holding on thin gauge ferrous metals to comparable Rare Earth lift magnets.

### Features

- On/Off Rare Earth design
- Easier actuation and Superior holding on material from 1/4" to 1" in thickness
- Lifts flat or round loads (see chart below)
- Heat resistant up to 180°F (82°C)
- Handle locks in "On" position
- 3:1 Design Factor
- **CONFORMS TO ASME B30.20 STANDARDS**



| Model No. | Lift |     | Overall  |          | Magnet   |          | Handle   |          | Bail     |          |          | Wt. (lbs) |
|-----------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|           | LBS  | KG  | Ht. (in) | Ln. (in) | Ht. (in) | Wd. (in) | Ln. (in) | Ln. (in) | Th. (in) | Ht. (in) | Wd. (in) |           |
| DL0200    | 200  | 90  | 7-1/2    | 4-1/4    | 2-1/2    | 2        | 3        | 2-1/2    | 2/5      | 1-1/2    | 2-1/4    | 4.5       |
| DL0375    | 375  | 170 | 10       | 5-3/4    | 3        | 2-3/4    | 4-1/4    | 2-3/4    | 3/5      | 2-1/2    | 3-1/4    | 11.5      |
| DL0600    | 600  | 272 | 8        | 6-1/2    | 4        | 2-3/4    | 6-1/2    | 9        | 3/8      | 2-1/2    | 3-1/4    | 13        |
| DL1100    | 1100 | 498 | 8-1/2    | 10-3/4   | 4        | 4        | 10       | 8        | 3/8      | 2-1/2    | 3-1/4    | 32        |

| Model No. | Lifting Value in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use |              |              |              |             |             |             | Round Lifting Applications |                |               |
|-----------|---|--------------|--------------|--------------|-------------|-------------|-------------|----------------------------|----------------|---------------|
|           | 1/4" (6' Lg)  | 3/8" (8' Lg) | 1/2" (8' Lg) | 3/4" (8' Lg) | 1" (10' Lg) | 2" (10' Lg) | 3" (10' Lg) | Lift - lbs (kg)            | Min. Dia. (in) | Min. Th. (in) |
| DL0200    | 182 (82)  | 197 (89)     | 200 (90)     | 200 (90)     | 200 (90)    | 200 (90)    | 200 (90)    | 100 (45)                   | 2              | 1/2           |
| DL0375    | 235 (106)   | 333 (151)    | 350 (158)    | 355 (161)    | 358 (162)   | 375 (170)   | 375 (170)   | 187 (84)                   | 2-1/2          | 1/2           |
| DL0600    | 368 (166)   | 475 (215)    | 550 (249)    | 575 (260)    | 600 (272)   | 600 (272)   | 600 (272)   | 300 (136)                  | 2-1/2          | 3/4           |
| DL1100    | 448 (203)   | 592 (268)    | 787 (356)    | 855 (387)    | 996 (451)   | 1000 (453)  | 1100 (498)  | 550 (249)                  | 2-1/2          | 1             |

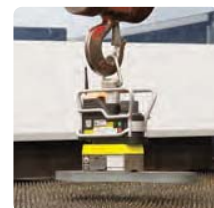
**NOTE:** Lifting Values for the DynamicLift™ Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Item Lifting Values are based on ideal conditions. Pipe length, wall thickness, diameter and surface condition can all affect the magnet's performance. Please consult the factory before specifying these magnets for use on round materials. \*These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part. **CF = Consult Factory NA = Not Applicable (Magnets listed will not turn "ON" on specified material thicknesses.)**

## Remote Operated DynamicLift™ Magnet

The remote operated DynamicLift™, featuring Magswitch® technology, is a powerful Rare Earth permanent lift magnet that can be turned "on" or "off" using a remote control without the need of air or electricity! Not only does this give the operator freedom from electrical cords and air hoses, but also opens up a whole new range of lifting possibilities where accessibility to the magnet was cumbersome or impossible to reach, such as lifting above or below arm's length, into deep channels, loading or unloading CNC/cutting tables and operation from inside the forklift. Permanent magnetic lifts also eliminate the fear of dropping the load being lifted due to power failures.

### Features

- Remote Operated, locking, On/Off Rare Earth permanent magnet will stay "on" if battery loses power
- Secondary manual release in case of battery failure
- Built in safety - a load sensor and a 3-button power off sequence prevent accidental release while under load
- Indicator lights for magnet operational state and battery strength
- Includes two, 12 volt rechargeable, Lithium-ion batteries (200 cycles per charge) and charger
- Custom pole shoes available for lifting rounds and more
- Internal release does not contact the load
- Easier actuation and Superior holding, to comparable Rare Earth lift magnets, on material from 1/4" to 1" in thickness
- 3:1 Design Factor
- Heat resistant up to 180°F (82°C)
- **CONFORMS TO ASME B30.20 STANDARDS**



| Model No. | Lift |     | Overall  |          | Magnet   |          | Bail     |          | Wt. (lbs) |       |       |    |
|-----------|------|-----|----------|----------|----------|----------|----------|----------|-----------|-------|-------|----|
|           | LBS  | KG  | Ht. (in) | Wd. (in) | Ln. (in) | Ht. (in) | Wd. (in) | Ln. (in) |           |       |       |    |
| DLR0600   | 600  | 272 | 12-1/2   | 4        | 8-1/2    | 4        | 2-3/4    | 6-1/2    | 3/8       | 2-1/2 | 3-1/4 | 20 |

| Model No. | Lifting Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use |              |              |              |             |             |             |
|-----------|---|--------------|--------------|--------------|-------------|-------------|-------------|
|           | 1/4" (6' Lg)  | 3/8" (8' Lg) | 1/2" (8' Lg) | 3/4" (8' Lg) | 1" (10' Lg) | 2" (10' Lg) | 3" (10' Lg) |
| DLR0600   | 368 (166)   | 475 (215)    | 550 (249)    | 575 (260)    | 600 (272)   | 600 (272)   | 600 (272)   |

**NOTE:** Lifting Values for the DynamicLift™ Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Please consult the factory before specifying these magnets for use on round materials. \*These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part.