

NEED a LIFT?

IMI's lift magnets won't leave you hanging.

MAG-MATE™



BASICLIFT™

CREATIVE LIFT®



POWERLIFT®

VERSALIFT™

INDUSTRIAL MAGNETICS, INC.

PERMANENT CERAMIC LIFT MAGNETS

BASICLIFT™ **MAG-MATE™**

IMI's new BasicLift™ is a powerful, no frills permanent ceramic lift magnet perfect for basic flat steel lifting. Featuring a lightweight and durable Stainless Steel design, the BasicLift has a full width cam to release the magnet from the steel surface and a tall lift lug for easy use with crane hooks and slings.

The BasicLift offers a good value for your dollar with strong lifting capacity and basic lifting features.

Features

- Heat resistant up to 300°F (148°C)
- Lightweight Design
- Durable Stainless Steel Casing
- Large Lift Lug
- Full Width Cam Release
- 2:1 Design Factor
- USA M.A.D.E.™



Model No.	Lift - lbs (kg)	Overall				Magnet		Bail Opening		Wt. (lbs)
		Height (in)	Width (in)	Length (in)	Handle (in)	Ln. (in)	Height (in)	Width (in)		
BL0400	400 (181)	5-1/2	6-1/2	6-1/2	12	3	4	2-1/4	3	13
BL1000	1000 (453)	5-1/2	6-1/2	9-1/2	12	3	6-1/2	2-1/4	3	18
BL1500	1500 (680)	5-1/2	6-1/2	13-3/4	12	3	10	2-1/4	3	28

Holding Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model No.	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
BL0400	375 (170)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
BL1000	725 (328)	800 (362)	875 (396)	975 (442)	1000 (453)	1000 (453)	1000 (453)
BL1500	875 (396)	1000 (453)	1400 (635)	1400 (635)	1500 (680)	1500 (680)	1500 (680)

NOTE: Holding Values for the BasicLift™ Magnets are stated at 50% 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. *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.

CREATIVE LIFT® **MAG-MATE™**

Permanent lift magnets are ideal for handling steel plates, die castings, forgings, etc. They eliminate the need for clamping devices, slings or chains. One person can perform operations previously calling for two or more people. The non-marring roller cam will easily release parts without gouging your valuable materials.

Features

- Patented Non-Marring Roller Cam Release (U.S. Patent: 6,471,273)
- Less torque required to release part
- "Jack Screw", Secondary Release
- Durable Stainless Steel Casing
- Heat Resistant up to 300°F (148°C)
- 3:1 Design Factor
- USA M.A.D.E.™
- CONFORMS TO ASME B30.20 STANDARDS



Model No.	Lift - lbs (kg)	Overall				Magnet		Bail Opening		Wt. (lbs)
		Height (in)	Width (in)	Length (in)	Handle (in)	Ln. (in)	Height (in)	Width (in)		
CL0400	400 (181)	6-3/4	7-1/4	7-3/4	16	6-1/2	4	2-1/4	3	19
CL1000	1000 (453)	6-3/4	7-1/4	10-3/4	16	6-1/2	7	2-1/4	3	33
CL1500	1500 (680)	6-3/4	7-1/4	14-3/4	16	6-1/2	10-1/2	2-1/4	3	46
CL2200	2200 (998)	7	10-1/2	15	16	9-3/4	11-1/4	2-1/4	3	84
CL3000	3000 (1360)	7	10-1/2	19-1/4	16	9-3/4	15-1/4	2-1/4	3	109

Holding Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model No.	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
CL0400	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
CL1000	600 (272)	900 (408)	1000 (453)	1000 (453)	1000 (453)	1000 (453)	1000 (453)
CL1500	800 (362)	1000 (453)	1500 (680)	1500 (680)	1500 (680)	1500 (680)	1500 (680)
CL2200	800 (362)	1064 (482)	1725 (782)	2000 (907)	2200 (998)	2200 (998)	2200 (998)
CL3000	800 (362)	1100 (498)	1800 (816)	2700 (1224)	3000 (1360)	3000 (1360)	3000 (1360)

NOTE: Holding Values for the Creative Lift® 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. *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.

PERMANENT RARE EARTH LIFT MAGNETS

POWERLIFT[®] MAG-MATE[™]

These compact yet powerful Rare Earth 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.

Features

- ON/OFF Rare Earth design
- Lifts flat or round loads (see chart below)
- Easy internal manual release does not contact the load
- Heat resistant up to 200°F (94°C)
- Handle locks in both On or Off position
- 3:1 Design Factor
- **CONFORMS TO ASME B30.20 STANDARDS**

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.



Model No.	Lift - lbs (kg)	Overall			Magnet			Handle		Bail			Wt. (lbs)
		Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)		
PNL220	220 (99)	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		
PNL660	660 (299)	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		
PNL1300	1300 (589)	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		
PNL2200	2200 (998)	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		
PNL4400	4400 (1995)	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		

Holding Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model No.	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)
PNL220	180 (99)	220 (99)	220 (99)	220 (99)	220 (99)	220 (99)	220 (99)
PNL660	270 (122)	500 (226)	615 (279)	660 (299)	660 (299)	660 (299)	660 (299)
PNL1300	CF	CF	800 (362)	1300 (589)	1300 (589)	1300 (589)	1300 (589)
PNL2200	NA	NA	CF	1490 (675)	2200 (998)	2200 (998)	2200 (998)
PNL4400	NA	NA	NA	NA	CF	2625 (1190)	4400 (1995)
PNL6600	NA	NA	NA	NA	NA	6600 (2993)	6600 (2993)

Round Lifting Applications

Model No.	Lift (lbs)	Min. Dia. (in)	Min. Th. (in)
PNL220	110 (49)	2	1/2
PNL660	330 (149)	3	1/2
PNL1300	650 (294)	4	1
PNL2200	1100 (498)	5	2
PNL4400	2200 (998)	14	4
PNL6600	3300 (1496)	CF	CF

NOTE: Holding 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 flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Item Holding 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.)**

VERSALIFT[™] MAG-MATE[™]

Compact and powerful Rare Earth 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 200°F (94°C)
- Stationary Lift Lug(s)
- Vertical Lift Capable using the optional Lift Lug attachment
- RFID tagged
- 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 approx. 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 - lbs (kg)	Overall			Magnet			Handle		Bail			Lift Lug Adaptor	
		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	4-1/2	3-5/8	6	3/4	2-1/4	1-3/4	10	VLLUG1	4-1/2	3
VL0600	600 (272)	6-1/2	7	3-3/4	4-1/2	5-5/8	6	3/4	2-1/4	1-3/4	18	VLLUG1	4-1/2	3
VL1200	1200 (544)	6-1/2	11	3-3/4	4-1/2	10	6	3/4	2-1/4	1-3/4	34	VLLUG1	4-1/2	3
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	4-1/2	3

Holding Value in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model No.	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)

Round Lifting Applications

Max. Lift - lbs (kg)	Max. Lift at Min. Dia. / Th.
137 (49)	50 (22) 2.00 in. / 0.12 in.
300 (136)	130 (58) 2.00 in. / 0.12 in.
600 (272)	600 (272) 4.00 in. / 0.50 in.
1250 (567)	1250 (567) 8.00 in. / 1.00 in.

Vertical Lift (Flat Only)

Lift - lbs (kg)	Min. Th.
68 (30)	1.00 in.
150 (68)	1.00 in.
300 (136)	1.00 in.
625 (283)	3.00 in.

NOTE: Holding 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 flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Holding 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.)**

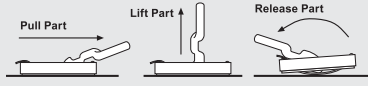
MORE MAGNETIC LIFTING SOLUTIONS!

SHEET HANDLER

Protect workers from cuts, slivers, nicks & burns! Use the Magnetic Sheet Handler for steel sheets, plates, hot or oily parts.

Features

- Handle sheets stacked horizontally or vertically
- Increase productivity
- No electricity required



Model No.	Lift - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Max. Penetration (in)
B100	50.0 (22.6)	4	3-5/8	6-1/8	3.75	3/16
B250	125.0 (56.7)	4	7-1/4	6-1/8	8.25	5/16
B400	200.0 (90.7)	4	7-1/4	6-1/8	8.25	5/16
B600	300.0 (136.0)	4	7-1/4	6-1/8	8.25	5/16

POWERGRIPS

Our PowerGrip Magnets are an fast, effective and affordable way to move parts from your cutting table.

Features

- Effective holding against shear force
- Welded steel construction
- Strong permanent magnetic material
- Securely grips heavy parts
- 300°F (148°C)



Model No.	Lift - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Poles	Wt. (lbs)
AC2100WLH	25.0 (11.3)	2	3/4	2-1/8	2	0.40
AC2200WLH	51.5 (23.3)	2-1/4	3/4	4	2	0.75
AC2201WLH	92.5 (41.9)	4	1-7/8	5-1/4	4	2.40

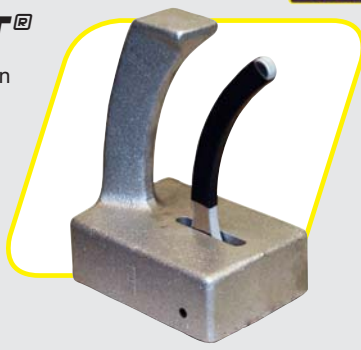
MAG-MATE™

TRIGGER LIFT®

Hand held lift grips parts with an easy to use trigger release.

Features

- One handed operation
- Permanent magnet
- Move parts faster & easier
- Aluminum housing
- Retrieve hot parts from cutting tables
- 300°F (148°C)



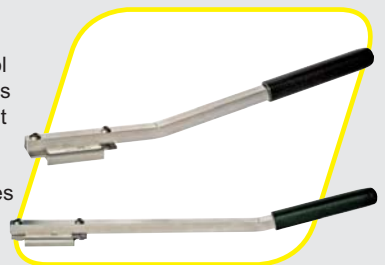
Model No.	Lift - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)
B090	50.0 (22.6)	4-13/16	2-3/8	3-3/8	1.50

GRIPSTICK

Lightweight magnetic hand tool for assisting when use of hands to pickup hot or oily parts is not desired. Useful for removing metal parts from presses, cutting tables or CNC machines

Features

- Provides extra reach
- Cushioned grip and magnet ends are reversible
- 10° angled handle to best suit your application.

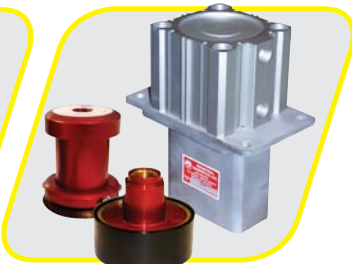


Model No.	Magnet Material	Lift - lbs (kg)	Ln. (in)	Wd. (in)	Ht. (in)	Wt. (lbs)
IMPL2100	Ceramic	12.5 (5.6)	14	1-3/8	7/8	0.65
IMPL2104	Rare Earth	43.5 (19.7)	14	1-3/8	7/8	0.65

RELM ELECTRO LIFT



TRANSPORTERS®



ENGINEERED LIFTING SOLUTION: LARGE STEEL PLATE LIFTER



BATTERY LIFT



MANHOLE COVER LIFT SYSTEM



ENGINEERED LIFTING SOLUTION: CYLINDER ACTUATED TUBE LIFTER



Percentage Of Stated Lifting Power By Material

CARBON CONTENT	Percentage	Material Range
Low Carbon	100%	0.05 - 0.29%
Moderate Carbon	85%	0.30 - 0.59%
High Carbon	75%	0.60 - 0.99%
Higher Carbon = Higher Residual**		

Percentage Of Stated Lifting Power By Surface Finish

SURFACE FINISH	Percentage
Ground Surface	100%
Rough Machined	100%
Foundry Finish	85%
Rough Cast	65%

** High Carbon steel (Tool Steel) will absorb magnetism and may magnetically stick to steel surface, such as the magnet or attract ferrous particles.

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