

PERMANENT CERAMIC MAGNETIC LIFTS

BASICLIFT™ MAGNETS



The BasicLift™ is a powerful, no frills permanent ceramic lift magnet perfect for basic flat steel lifting, angle iron, square tubes, etc. 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:

- » Lightweight Design
- » Durable Stainless Steel Casing
- » Large Lift Lug
- » Full Width Cam Release
- » Heat resistant up to 300°F (148°C)
- » 2:1 Design Factor



Model No.	WLL		Overall				Magnet				Bail Opening			
	LBS	KG	Height (in)	Width (in)	Length (in)	Handle Length (in)	Height (in)	Width (in)	Length (in)	No. of Poles	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
BL0400	400	181	5-1/2	5-5/8	7-1/2	12	1-5/8	4-1/2	3	4	1/4	2-3/4	2-3/4	11
BL1000	1000	453	5-1/2	5-5/8	11	12	1-5/8	4-1/2	6-1/2	8	1/4	2-3/4	2-3/4	17
BL1500	1500	680	5-1/2	5-5/8	14-1/2	12	1-5/8	4-1/2	10	12	1/4	2-3/4	2-3/4	24

Working Load Limit (WLL) 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: Working Load Limit (WLL) lifting 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® MAGNETS



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.

FEATURES:

- » The original Non-Marring Roller Cam Release will easily release parts without gouging your valuable materials
- » Spring return handle
- » Less torque required to release load
- » "Jack Screw" Secondary Release
- » Lift capacity clearly stated on magnet
- » Durable Stainless Steel Casing
- » Heat Resistant up to 300°F (148°C)
- » 3:1 Design Factor
- » ASME B30.20 BTH-1 Design Category B Service Class 3



Model No.	WLL		Overall				Magnet				Bail Opening			
	LBS	KG	Height (in)	Width (in)	Length (in)	Handle Length (in)	Height (in)	Width (in)	Length (in)	No. of Poles	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
CL0400	400	181	6-3/4	7-1/4	7-3/4	16	2-1/2	6-1/2	4	4	3/8	2-7/8	3	21
CL1000	1000	453	6-3/4	7-1/4	10-3/4	16	2-1/2	6-1/2	7	8	3/8	2-7/8	3	33
CL1500	1500	680	6-3/4	7-1/4	14-3/4	16	2-1/2	6-1/2	10-1/2	12	3/8	2-7/8	3	46
CL2200	2200	998	7	10-1/2	15	16	2-1/2	9-3/4	11-1/4	12	3/8	2-7/8	3	69
CL3000	3000	1360	7	10-1/2	19-1/4	16	2-1/2	9-3/4	15-1/4	17	3/8	2-7/8	3	92

Working Load Limit (WLL) 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: Working Load Limit (WLL) lifting 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 MAGNETIC LIFTS

POWERLIFT® MAGNETS

These compact switchable 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 Permanent Magnet
- » Handle locks in both On and Off position
- » 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)
- » 3:1 Design Factor
- » ASME B30.20 BTH-1 Design Category B Service Class 3



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



See Special Utility Applications Lifters in IMI's 101z Catalog

	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Height (in)	Length (in)	Height (in)	Width (in)	Length (in)	Length (in)	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
PNL0250	250	113	6-5/8	5	2-5/8	2-5/8	3-5/8	4	3/16	1-3/8	1-1/2	6
PNL0800	800	363	8-7/8	7-7/8	3-7/8	3-5/8	6-3/8	8	1/2	2-3/8	1-3/4	21
PNL1600	1600	726	8-7/8	10-3/4	4-3/4	4-7/8	9-1/8	9	5/8	3-1/2	2-1/4	51
PNL2500	2500	1134	13-3/8	12-5/8	6-1/2	7-1/8	10-5/8	10-3/4	3/4	4-3/4	3-3/4	122
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	288
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

Working Load Limit (WLL) in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Round Lifting Applications

Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	3" (10' Ln Length)	WLL - 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 (362)	800 (363)	800 (363)	800 (362)	400 (181)	3	1/2
PNL1600	NA	CF	800 (362)	1600 (726)	1600 (726)	1600 (726)	1600 (726)	800 (362)	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: Working Load Limit (WLL) 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 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.)

PERMANENT RARE EARTH MAGNETIC LIFTS

ADVANTAGELIFT™ MAGNETS

The AdvantageLift™ has many advantages over other lift magnets on the market. This On/Off Permanent Rare Earth Lift magnet built to last in a heavy-duty industrial work environment while providing all the safety features that protect workers and equipment. First, the handle operation is by far the best and most ergonomic feature of the magnet. Handle moves laterally in and out instead of pulling the handle or pressing a release button or lever. While other magnets are not equipped to allow use a "cheater bar" to turn a magnet "On" and "Off," this lift magnet can accommodate a tubular bar or pipe. This reduces the need to bend over to turn the magnet "On" and "Off" when lifting steel off pallets or the floor. Removal of any "cheater bar" or pipe during the lift process is recommended to prevent damage to the handle and other items the bar could encounter. Second, the lifting bail is the "lock-out" feature for this magnet. When magnet is under load, the lifting bail lock-out prevents the handle from being rotated to the Off position. This feature works on the vertical lifting bail as well.

FEATURES:

- » On/Off Permanent Rare Earth Magnet
- » Handle moves laterally instead of pulling, pressing buttons or levers
- » Locking lifting bail(s) prevents accidental load release during lift
- » Recessed (protected) labels for extended life
- » Lifts flats both horizontally and vertically with Vertical Lift Bail
- » Supports custom pole shoes (1/4"-20 Tapped Holes, 1/2" deep)
- » Swiveling Lift Bail(s)
- » Operating temperature range of -10°F (-23°C) to 180°F (82 °C)
- » 3:1 Design Factor
- » ASME B30.20 BTH-1 Design Category B Service Class 3



	WLL		Overall			Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Wd. (in)	Ln. (in)	Ht. (in)	Wd.(in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
AL0660	660	300	8	5-7/16	10-1/8	4-5/8	3-3/8	6-3/16	10-1/8	1/2	1-7/8	1-1/2	33
AL1200	1200	454	8	5-7/16	13-1/4	4-5/8	3-3/8	9-3/16	10-1/8	1/2	1-7/8	1-1/2	46
AL1600	1600	680	10	6-7/8	13-5/16	6	4-3/8	9-3/16	11-7/16	5/8	2-7/32	1-3/4	80
AL2200	2200	907	10	6-7/8	16-5-1/16	6	4-3/8	12-3/16	11-7/16	5/8	2-7/32	1-3/4	102
ALLUG1	-	-	3-9/16	4-3/8	4-11/16	-	-	-	-	1/2	1-7/8	1-1/2	4
ALLUG2	-	-	4-3/4	5-3/4	5-3/4	-	-	-	-	5/8	2-7/32	1-3/4	6

Working Load Limit (WLL) in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use								Round Lifting Applications			WLL Vertical Flat Only			
Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	WLL- lbs (KG) 8" O.D. 1" Th	Min. Dia. (in)	Min. Th. (in)		Model No.	Lbs* KG*	Length (in)	Weight (lbs)
AL0660	220 (100)	410 (186)	480 (218)	660 (300)	660 (300)	660 (300)	330 (113)	2	1/2		AL0660LUG	165 75	14-7/8	37
AL1200	290 (132)	590 (268)	670 (304)	1200 (544)	1200 (544)	1200 (544)	660 (300)	3	1/2		AL1200LUG	300 136	17-15/16	50
AL1600	340 (154)	670 (304)	770 (349)	1350 (612)	1600 (726)	1600 (726)	800 (362)	4	1		AL1600LUG	400 182	18	86
AL2200	NA	NA	NA	1720 (780)	2200 (998)	2200 (998)	NA	5	2		AL2200LUG	550 250	22	108

*Note: Lift Capacity Based On 1" Minimum Material Thickness

NOTE: Working Load Limit (WLL) lifting values for the AdvantageLift® 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.)**

SPREADER BEAMS



When lifting large steel shapes, such as off-center loads, round, rectangular or long items (I-beams), one lift magnet may not be enough. IMI's Spreader Beams allow two magnets to be used at one time with only one lifting source. Magnets on a Spreader Beam keep your product level, reducing the height required to lift the load, providing a safer lift environment while reducing the time needed to move the load.



SBI SERIES FEATURES:

- » Low cost spreader beams
- » One-piece construction
- » Fork lift pockets
- » Multiple spreads plus center hole
- » Designed and manufactured to ASME B30.20



SBC SERIES FEATURES

- » Beams 3' to 4' have 2 spreads
- » Beams 6' to 10' have 3 spreads
- » Swivel hooks with latches
- » Designed and manufactured to ASME B30.20

PERMANENT RARE EARTH MAGNETIC LIFTS

DYNAMICLIFT™ MAGNETS

These lightweight switchable Rare Earth permanent lift magnets can be used on flat or round surfaces and contain an internal release On/Off device.

FEATURES:

- » Top rotating On/Off actuated Rare Earth permanent magnet
- » Lifts flat or round loads horizontally and flat loads vertically
- » Locking On/Off handle
- » Heat resistant up to 180°F (82°C)
- » 3:1 Design Factor
- » ASME B30.20 BTH-1 Design Category B Service Class 3



	Working Load Limit		Overall		Magnet			Handle	Bail			
Model No.	WLL (lbs)	WLL (kg)	Height (in)	Length (in)	Height (in)	Width (in)	Length (in)	Length (in)	Thick. (in)	Height (in)	Width (in)	Weight (lbs)
DL0150	150	68.04	10	5	2-3/4	2-1/2	3	2-1/2	1/4	2-1/4	3	6.1
DL0334	334	151.50	10-7/16	6-1/2	3	4	4-1/4	2-1/2	1/4	2-1/4	4	13.3

Horizontal Flat Part WLL in lbs (kg), Min. Steel Thickness & *Max. Length Due To Sag For Single Magnet									Vertical Part Lift (Flat Only)	
Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	3" (10' Ln)	3" (10' Ln)	WLL - lbs (kg)	Min. Thickness
DL0150	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	40 (17.01)	0.25 In.
DL0334	275 (124.73)	320 (145.15)	334(151.49)	334(151.49)	334(151.49)	334(151.49)	334(151.49)	334(151.49)	75 (37.88)	0.37 In.

Horizontal Round Part Round Lifting Applications				
Model No.	Maximum WLL - lbs (kg)	Minimum Diameter	Minimum Wall Thickness	Maximum WLL at Min. Diameter & Min. Thickness
DL0150	75 (34.02)	2	1/8	65 (29.48)
DL0334	167 (75.75)	4	1/8	100 (45.36)

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. Consult the factory before specifying these magnets for use on round materials. Round Item Lifting Values are based on ideal conditions. Length, wall thickness, diameter and surface can all affect the magnet's performance. *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.

CUSTOM FIXTURE WITH PERMANENT ON/OFF MAGNETS

Our factory experts will develop a unique magnetic lifting device if a standard magnetic lift doesn't work for your application. We will be there every step of the way from field sales support to design, manufacturing and final testing.

For more information on our custom lifting products, please contact us today at 888.582.0823 or go online to www.magnetics.com

- » Custom beams
- » Custom pole shoes
- » Custom lift and rotate fixtures

