

MANHOLE COVER LIFT SYSTEMS

MG-03A



THE ORIGINAL
US PATENT #'S
7,503,743 & 7,544,035
Most Ergonomic Dolly
System on the Market!

MANHOLE COVER LIFT SYSTEMS MAKE IT EASY TO REMOVE & REPLACE COVERS & SEPTIC LIDS.

The deep reaching strength of our Rare Earth magnets penetrate textured surfaces often found on manhole covers. Once the magnet(s) are attached, use a hoist or lift dolly to move the manhole covers. And now, the Septic Lid Lift Adaptor makes lifting Septic Lids a gas! See back for details.

- ### APPLICATION BENEFITS
- Faster access to openings
 - Makes moving heavy manhole covers and septic lids an easy one-person operation
 - Eliminate the use of pry bars
 - Leverage makes lifting heavy covers easy
 - Ideal for survey & pumper crews
 - Dolly handle breaks down for easy storage

- ### EMPLOYEE BENEFITS
- Reduce lost time injuries caused by handling covers
 - Prevent injuries to fingers and toes
 - Prevent long term back injuries/soreness
 - Minimizes lifting concerns for an aging or gender diverse workforce
 - For safety, the magnet must be in contact with the manhole cover to be turned on



INDUSTRIAL MAGNETICS, INC.

1385 M-75 South • Boyne City, MI 49712

P: 888.582.0822 • F: 231.582.2704 • WWW.MAGNETICS.COM

Updated 04/12

The Manhole Cover Lift Systems Are Designed To Pick Up Lids Of All Contours And Sizes

Manhole Dolly Systems

Manhole Cover Lift Dolly Systems use an adjustable four-position hook and a four-length, retractable handle with three angle positions of 90°, 105° and 120° allowing the operator to maneuver **up to 400 lb.** heavy manhole covers ergonomically. The hook makes grabbing the magnet or spreader bar, a one-person job. Heavy-duty wheels, 6", 10" or 12" diameter, provide stability for moving the manhole cover safely away from the opening.

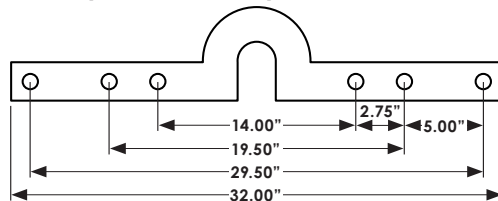
The MCL2000 (Steel) & MCL3000 (Aluminum) Manhole Dollies are designed to be used with a single magnet (sold separately) in the center of the manhole cover or with dual magnets & a spreader bar (sold separately). Both models are foldable. When fully extended the handle length is 64", folded and collapsed down to 41" long.

SPREADER BAR

The use of two magnets on a spreader bar makes it possible to avoid lifting from the center of a manhole cover with raised or lowered sections & to balance the load more easily. Ideal for large covers or heavily textured surfaces. The Spreader Bar has three location holes that allow the magnets to be placed where maximum magnet-to-steel ratio (flat surface) can be achieved. **Lift capacity 400 lbs.**



**Manhole Cover Lift
Spreader Bar Specifications**



"RULE OF THUMB" GUIDE FOR LIFTING MANHOLE LIDS.		*Note: Consult the factory for lids that have paving or non-clean surfaces. For single magnet use, the center section of the lid should have all high spots on the same plain. Heavily textured surfaces should use the MCL660X2/MCL600X2. For grates or vented lids, use PNL1600/VL1200 or MCL660X2/MCL600X2. Using the MCL660X2/MCL600X2 will keep the lid level and may reduce the distance the handle has to be lowered to get the lid out and back in.
Diameter of lids/covers	Magnet Size	
Up to 26" Diameter	PNL800/VL0600	
30" to 35" Diameter	PNL1600/VL1200	
36" Diameter & up	MCL660X2/MCL600X2	

Manhole cover must be loose prior to lifting the cover. You can use the Manhole Cover Lift System to help loosen some of your stuck or stubborn manhole covers. Place the magnet on the edge of the manhole cover as shown in picture (See Right). Use the leverage on the dolly to lift one edge of the manhole cover.



Get The Angle Right!
With our four hook positions and our three dolly angles, eliminate the back pain caused by bending down to move the manhole lids.

MCL3000W06



COVER SAMPLES AND RECOMMENDATIONS

DOLLY WITH SINGLE MAGNET

Textured - all high points on same plane

DOLLY WITH TWO MAGNETS ON A SPREADER BAR

Center Raised - Manhole Cover Cross Section

Low Center - Manhole Cover Cross Section

Move Heavy Manhole Lids In A Quick And Easy Process

MAG-MATE®

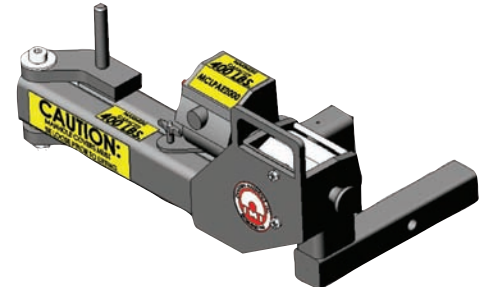
Manhole PowerArm Systems

- Electric Winch
- Manual Winch

IMI's new Manhole PowerArm™ makes lifting and replacing manhole covers easier than ever. Just drive within 3 feet of the center of the manhole cover and let the Manhole PowerArm™ adjust to your location. The "Arm" has a 3 foot, 180° swing radius that allows the positioning of the magnet to the center of the manhole cover.

The deep reaching strength of our Rare Earth magnet (sold separately) penetrates textured surfaces often found on manhole covers. Once the magnet is centered, turn the magnet to the "lock-on" position and use the winch to start lifting the manhole cover. When the manhole cover is clear from its rim, swing the manhole cover away. Reverse the steps to replace the manhole cover.

The PowerArm™ Winch can also allow the operator to lower items such as camera tractors, large sewer nozzles, pipe plugs and MORE!!!

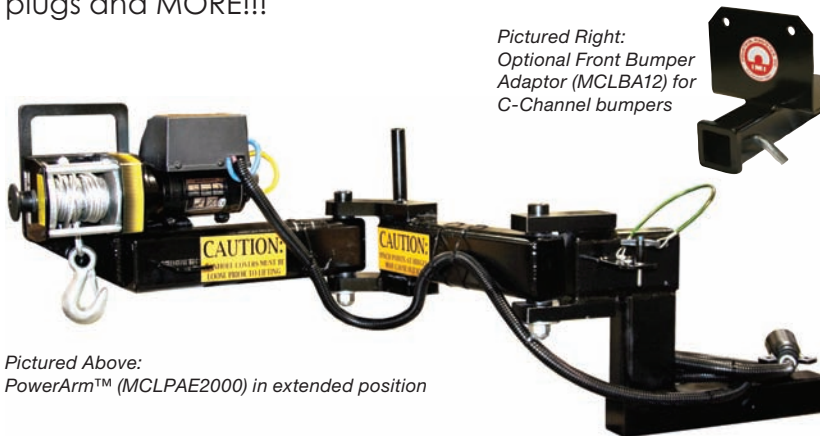


*Pictured Above:
PowerArm™ (MCLPAE2000) in folded / collapsed position for easy storage and transportation*

*Pictured Below:
PowerArm™ (MCLPAM2000) Installed in hitch with load*



*Pictured Right:
Optional Front Bumper Adaptor (MCLBA12) for C-Channel bumpers*



*Pictured Above:
PowerArm™ (MCLPAE2000) in extended position*

COMMON SPECIFICATIONS:

- 400 Lb. Lifting capacity
- Fits into standard 2" square receiver hitch
- Welded 2" x 3" tubular steel construction

ELECTRIC WINCH SPECIFICATIONS:

- 12 V DC with power-up & power-down control, removable 15' remote control cord and a galvanized cable with latch hook
- 7-Way "Blade Style" trailer end connector

MANUAL WINCH SPECIFICATIONS:

- Worm Gear winch that will hold load when handle is released
- Fine adjustment load movement
- Polyester strap with Zinc-plated hook & safety latch

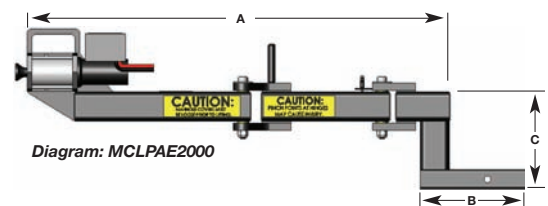


Diagram: MCLPAE2000

Model No.	Winch Type	A	B	C	Weight
MCLPAE2000	Electric	44 In.	9 In.	10 In.	70 Lbs.
MCLPAM2000	Manual	44 In.	9 In.	10 In.	70 Lbs.



MAG-MATE®

Pictured: MCL2000W12 with MCLLEGM



SEPTIC LID LIFTER

The Septic Lid Lift Accessory (MCLLEG) is an adaptor to our extremely popular Manhole Cover Lift Dolly (MCL2000/MCL3000). The MCLLEG features a combination of steel and aluminum making it lightweight, corrosion resistant and easy to handle & operate. Lifts lids up to 400 lbs.

It comes equipped with an easy to turn manual worm gear winch and a 20' long lifting strap with hook (See PowerArm™ section for winch details) and is collapsible for compact storage.



Collapses for easy storage and transportation.

RAISE, REMOVE & REPLACE SEPTIC LIDS EASILY AND ERGONOMICALLY!



VALVE BOX LIFTER

No bending over to lift cast iron utility covers. Reduces finger and toe injuries with this light-weight deep reach permanent magnetic lifter. The magnetic field penetrates textured surfaces of lids and allows the operator to ergonomically lift the casting out of the way. Features a locking handle for safety & an easy on/off to instantly remove covers. Rated for small cast iron covers less than 50 lbs. Part Number: MCLVB01 (Pictured Left).



WHEEL CHOCK

The 18" x 16" painted steel Wheel Chock plate is ideal for use with any of our manhole cover lift dollies. Use the wheel chock in areas that have sloped grades, areas that have soft surfaces or just use the wheel chock to reduce the risk of the dolly rolling in an undesirable direction. Part Number: MCLWC18X16 (Pictured Left).



DOLLY HOOK EXTENSION

The 12" Dolly Hook Extension easily connects to the arm of our Manhole Cover Lift Dolly and extends its reach for dolly wheel clearance on large covers 48" to 54" diameter. Part Number: MCLHOOKEXT (Pictured Left).

CHAIN EXTENSION

The Manhole Cover Lift System Chain Extension allows for easier removal & replacement of septic tank lids. Part Number: MCLCHAIN (Pictured Left).

MANHOLE COVER LIFT SYSTEM COMPONENTS

PART NUMBER	DESCRIPTION	LBS.
PNL800	Powerlift® Rare Earth Lift Magnet - 800 lbs. Rating	22
PNL1600	Powerlift® Rare Earth Lift Magnet - 1600 lbs. Rating	53
VL0600	VersaLift™, Premium Lightweight Rare Earth Lift Magnet - 600 lbs. Rating	18
VL1200	VersaLift™, Premium Lightweight Rare Earth Lift Magnet - 1200 lbs. Rating	34
MCL2000W06	Manhole cover dolly, black powder coated steel, with 6" wheels	46
MCL2000W10	Manhole cover dolly, black powder coated steel, with 10" wheels	52
MCL2000W12	Manhole cover dolly, black powder coated steel, 12" all-terrain wheels - MCLHOOKEXT is recommended for clearance	52
MCL3000W06	Manhole cover dolly, yellow powder coated aluminum, with 6" wheels	29
MCL3000W10	Manhole cover dolly, yellow powder coated aluminum, with 10" wheels	34
MCL3000W12	Manhole cover dolly, yellow powder coated aluminum, 12" all-terrain wheels - MCLHOOKEXT is recommended for clearance	34
MCLPAM2000	Manhole cover PowerArm™, steel, with a manual winch	70
MCLPAE2000	Manhole cover PowerArm™, steel, with an electric winch	70
MCL600X2	Spreader Bar with two Premium Lightweight VL0600 magnets	43
MCL660X2	Spreader Bar with two PNL800 magnets	51
MCL660	Spreader Bar only	7
MCLBA12	PowerArm™ front bumper hitch adaptor for C-Channel bumpers	13
MCLWC18X16	Wheel Chock 18"x16"	17.5
MCLHOOKEXT	Dolly hook extension for covers up to 54" (6" wheels), 50" (10" wheels), or 48" (12" wheels)	3
MCLLEGM	Septic Lid Lift Adaptor (Manual Winch) for the MCL Dolly that allows for lifting lids of various shaped & sizes	28
MCLCHAIN	Double leg chain extension for septic tank lids	2.5
MCLVB01	Valve Box Lifter, 28.5" in length, 50 lbs. capacity	5.5