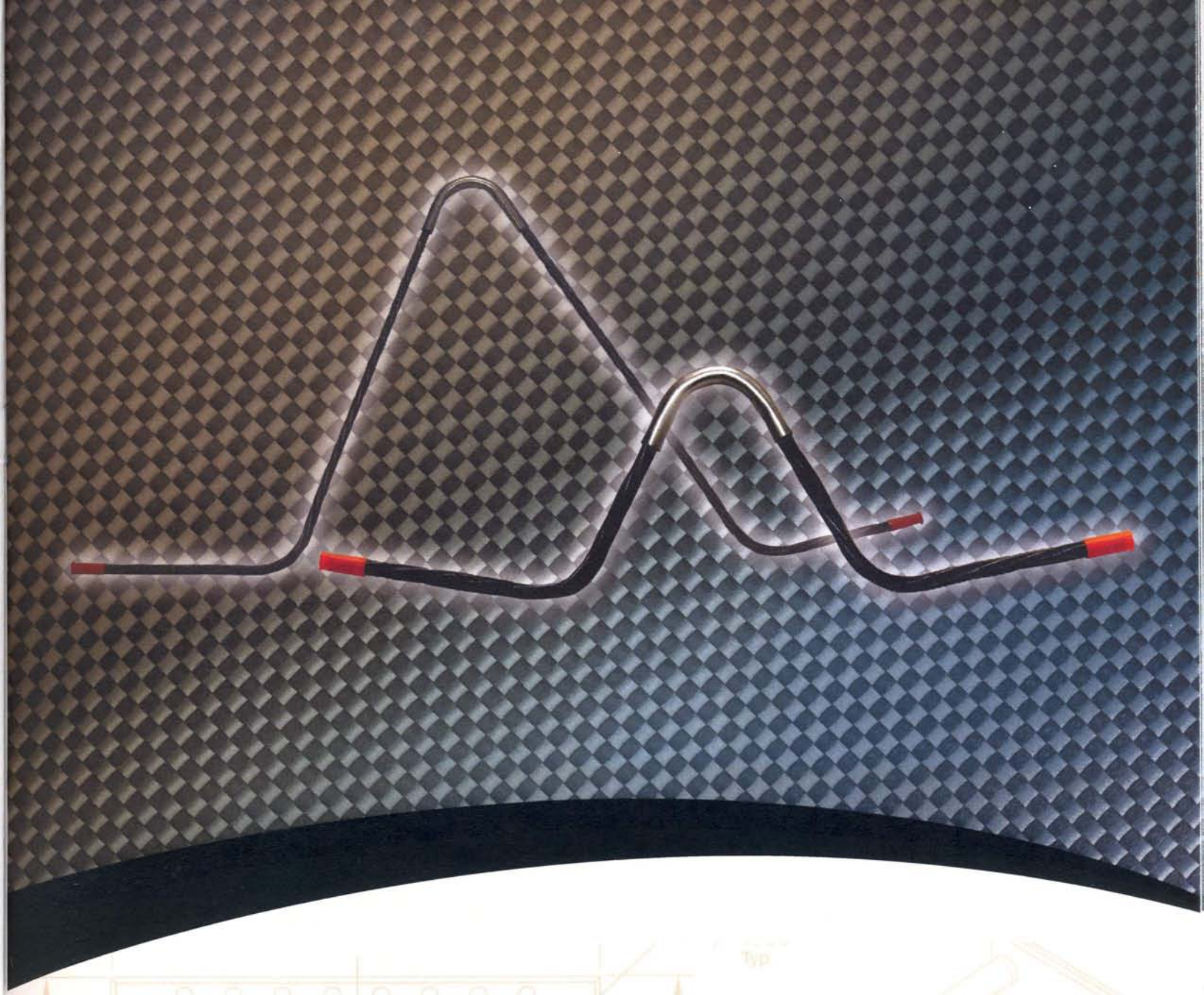


Lifting Devices

Manhole Lift Inserts

Item# – 004-740
Qty – 200 per case

Lift Inserts are injection molded using ABS plastic. They are rated at 3500 lbs. each. Lift Inserts have two center rings to ensure there is no infiltration or exfiltration. These also add strength to the insert.

Lift Insert Locator

Item# – 004-741
Qty – Sold individually

Lift Insert Locators provide an alternative for locating the lift inserts. They are cost effective compared to traditional hardware. Lift Insert Locators use a 5/8" hole in your form. The locator slips inside the lift insert and is tightened with a wing bolt. The locator seals the insert tightly to the form for no infiltration of moisture. The locator can be used for both flat and round walls.

Lift Eye

Item# – 004-742
Qty – Sold individually

Lift Eye is forged steel, not cast steel. The lift eye exceeds all OSHA standards.
The Lift Eye has a rating of 4500 lbs. per lift eye. The Lift Eye is easy to use. Simply align the keys with the slots on the lift insert. Push the Eye all the way in and turn to lock it in place.

Breakaway Lift Inserts

Item# – 004-735
Qty – 135 per case

Breakaway Lift Inserts provide water-tight and vacuum-tight seal. They create a perfect lift hole every time. They are made of durable ABS plastic and are for either wet cast or dry cast. Breakaway Lift Inserts require no special tool. They are installed from the outside of your form.

Slotted Sleeve For Breakaway Lift Inserts

Item# – 004-747
Qty – Sold Individually

Slotted Sleeves for Breakaway Lift Inserts are machined for a precise fit for the lift inserts. They are keyed for positive alignment of the insert.
Slotted Sleeves are welded to the outside jacket of the form and ground smooth with the concrete side. Inserts are pushed into the sleeve from the outside. The sleeve holds the insert in place during the pour. When stripping, the breakaway portion shears off exposing the lift insert for use.

Plastic Lift Pin

Item# – 004-710
Qty – 1500 per Gaylord or 50 per case

M.A. Plastic Lift Pins are made of copolymer polypropylene conforming to ASTM D101 and 1" Grade 60 rebar conforming to ASTM A615. They are rated at 5,500 lbs. with a 4:1 safety factor. Lift Pins are easily handled with a spreader bar and chains, hooks or slings. Test Data is available upon request.

Lift Pin Forming Pin
Item# – 004-725
Qty – Sold individually

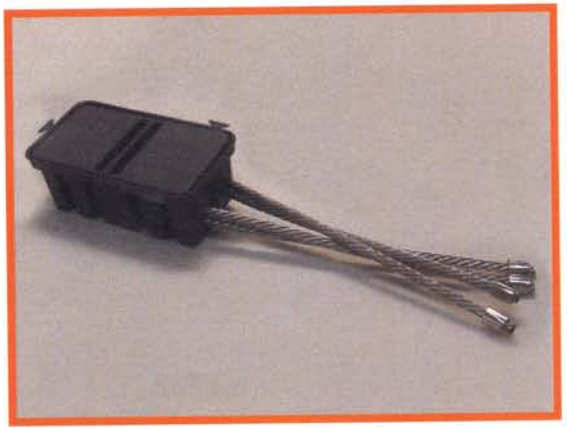
Lift Pin Forming Pins are the hardward needed to form the proper sized hole to install the Plastic Lift Pins into your structure. Easily installed to the jacket of the form, these pins are precisely machined to create a perfect hole every time.

Flex Cable Lifter
Item# – 004-588
Qty – 20 per case

Flex Cable Lifter is made of 1/2" corrorsion resistant galvanized cable conforming to ASTM A1023. Ut us rated at 9,000 lbs. with a 4:1 safety factor. Available with or without vinyl coated end stops.

Double Flex Cable Lifter
Item# – 004-593
Qty – 18 per case

Double Flex Cable Lifter is made of 2 – 1/2" corrosion resistant galvanized cable conforming to ASTM A1023. It is rated at 20,000 lbs. with a 4:1 saftey factor. Available with or without vinyl coated end stops.



Standard & Custom Made Lifting Irons

- ❑ Custom Designs And Lengths to Fit Your Needs
- ❑ Eliminate Expensive Clutches And Lift Pins
- ❑ Competitively Priced
- ❑ Test Reports Are Available On Request
- ❑ Tube Choices: EMT Zinc Plated Conduit Tubing
  DOM Steel Tubing
  DOM Steel Zinc Plated Tubing
- ❑ 270,000 PSI, 1/2 inch Dia., 7 Strand Cable.
  Lift Capacity 7,500 lbs.
- ❑ 270,000 PSI, 1/2 inch Dia., Double 7 Strand Cable.
  Lift Capacity 14,000 lbs.
- ❑ 270,000 PSI, 3/8 inch Dia., 7 Strand Cable.
  Lift Capacity 4,000 lbs.
- ❑ Standard Irons Are In Inventory And Ready For Immediate Delivery.
- ❑ Available in 1\2", 3/8" & Double 1/2"

Best Practices For Safe Lifting

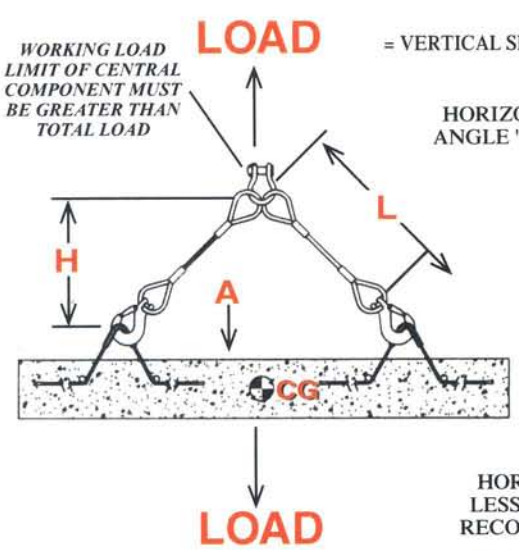
M.A. Industries' Lifting products are to be used by qualified personnel only. Misuse can lead to serious accidents or deaths. Any application other than the intended application must be tested prior to use.

The user of M.A. Industries' Lifting products is responsible for evaluating product placement in the structure and determining the safe working load. The safe working load on each lifting product must not be exceeded. All lifting product designs have been tested to failure to determine the safe working load. Test results are available upon request.

RIGGING INFORMATION

IT IS RECOMMENDED THAT ALL LOADS BE RIGGED SYMMETRIC WITH THE LOAD CENTER OF GRAVITY SUCH THAT ALL SLINGS EQUALLY SHARE THE LOAD

ANGLED SLING ORIENTATION FOR SYMMETRC LOADING



LOAD ON EACH SLING
= VERTICAL SHARE OF LOAD X LOAD ANGLE FACTOR

HORIZONTAL SLING ANGLE "A" (DEGREES)	LOAD ANGLE FACTOR=L/H
90	1.000
60	1.155
50	1.305
45	1.414
30	2.000

HORIZONTALSLING ANGLES OF LESS THAN 30 DEGREESARE NOT RECOMMENDED AS PER ANSI B30.9

AVOID SHOCK LOADING WHILE LIFTING

VERTICAL SLING ORIENTATION FOR SYMMETRC LOADING