

# INSTALLATION INSTRUCTIONS

## Side Tank Mount — STM3

Three-Plate Side Mount for Heavy Equipment

### SAFETY WARNINGS

Failure to read and follow all instructions may lead to risk of injury or death.

#### ⚠ WARNING FALL HAZARD

Failure to follow this warning may result in serious injury or death.

Use OSHA approved fall protection equipment when installing mount.

Mount is NOT man-rated. Do not lean on mount, hang on mount, or use mount for support.

#### ⚠ WARNING DETACHMENT HAZARD

Failure to follow this warning may result in serious injury or death.

Failure to follow installation instructions, including application of correct torque values, may create a mount detachment hazard.

Mount must remain tethered to tower at all times.

#### ⚠ WARNING MAGNET HAZARD — CARDIAC DEVICES

Failure to follow this warning may result in serious injury or death.

Mount contains magnetic components.

Wearers of cardiac pacemakers, implantable cardioverter defibrillators (ICDs) or other metallic, magnetic, or mechanical implants, devices or objects should not come into contact with mount.

#### ⚠ CAUTION MAGNET HAZARD

Failure to follow this caution may result in injury or property damage.

Mount contains magnetic components.

- PINCH HAZARD. Interaction with magnets on mount may create a pinch hazard.
- PROPERTY HAZARD. Electronic objects such as cell phones, hearing aids, and beepers may be damaged.

#### ⚠ CAUTION CUT HAZARD

Failure to follow this caution may result in injury.

Metal components of mount may have sharp edges.

Use care and wear OSHA approved protective clothing, work gloves, and safety glasses when handling and installing mount.

#### ⚠ CAUTION ICE / WEATHER HAZARD

Failure to follow this caution may result in injury or property damage.

Ice accumulation on the mount or mast can significantly increase wind loading and reduce holding power.

Inspect and clear ice from mount before and during severe weather events.

Ensure guy wires (where applicable) are taut and secure prior to any winter weather.

MAGNEMOUNT is a registered trademark. Patent Nos. #7,624,957 | #9,188,276 | #9,472,937 | [www.magnemount.io](http://www.magnemount.io)

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#### BEFORE YOU BEGIN

##### TOOLS REQUIRED

1/2" and 3/4" open-ended wrench · 1/2" and 3/4" deep sockets · 9/16" standard socket · Torque wrench(es)

**NOTE:** For maximum holding power, rows of 5 magnets should not be placed in-line across a weld. If mounting more than one piece of equipment, the greater total weight must be below the average separation of the top and bottom Magnemount plates.

**⚠ DO NOT REMOVE THE PADS ON THE BOTTOM OF THE MAGNETS. They are an integral part of the system.**

#### INSTALLATION SUMMARY

- › Magnets achieve maximum holding power when double nuts are torqued to 10 ft-lb.
- › The mast must rest against all mounting plates without lifting any one plate. All plates must be aligned vertically (away from the tower).
- › Installing the top and bottom plates and mast through the 4 U-bolts will set the vertical alignment. Other plates are then tightened against the mast — ONLY AFTER the magnets of the remaining plates are set.
- › Do not remove the Mylar pads on the bottom of the magnets. They are an integral part of the system.

#### INSTALLATION STEPS

##### MAGNET TORQUE SEQUENCE — STANDARD METHOD

Follow this sequence for all 24-magnet plates:

**Step 1:** Loosen ALL double hex nuts at least ¼" above the plate.

**Step 2:** First 4 magnets — edges of plate, center of rows of 5. Order: TOP → BOTTOM → SIDE → SIDE.

**Step 3:** Next 8 magnets — edges, one each side of Step 2 magnets. Same order: TOP → BOTTOM → SIDE → SIDE.

**Step 4:** Remaining 12 magnets — any order.

**Torque:** Finger-tighten bottom nut, hold with open-ended wrench, then torque top nut to **10 ft-lb**. DO NOT USE POWER TOOLS.

- 1 Prior to installation — DO NOT REMOVE THE ATTACHED INSULATING CORRUGATED CARDBOARD BASE.
- 2 Wipe the tank coating in the installation area with a cloth to remove any loose dirt. This helps magnets achieve maximum holding power.
- 3 Totally loosen all double hex nuts on all 24 magnets to at least ¼" above the plate.
- 4 First 4 magnets: Edges of the plate, center of rows of 5. Order: TOP → BOTTOM → SIDE → SIDE.
- 5 Finger-tighten the bottom hex nut. Hold with open-ended wrench, torque top nut to 10 ft-lb. DO NOT use power tools.
- 6 Next 8 magnets: Edges, one each side of previously adjusted magnets. Order: TOP → BOTTOM → SIDE → SIDE.
- 7 Remaining 12 magnets: Install in any order, per Step 5.
- 8 Install all mounting plates so they are roughly vertical. Tap with rubber mallet to correct misalignment. Top and bottom plates should be spaced as far apart as possible, or as plans require.
- 9 Attach the mast (no equipment mounted). Guide through all 4 U-bolts of only the top and bottom plates. Tighten double nuts on each U-bolt to 45 ft-lb. Tighten the 2 bolts on each side of the short mast section to 18 ft-lb.
- 10 Install the remaining 4 U-bolts over the mast and into the remaining plates. Finger-tighten bottom nuts against plate, then torque top nuts to 45 ft-lb.
- 11 The Magnemount is now installed and equipment can be added.
- 12 For safety, tether the mount to the tower.
- 13 Yearly inspections are recommended.

## REMOVAL

- 1 Insert the enclosed 1.5" wide bar at the indicated area and lift the side being pried.
- 2 Set the mount on its side and cover the magnets to keep them clean.

## For Assistance

**Email:** [magnemount@wasinc.com](mailto:magnemount@wasinc.com)

**Web:** [www.magnemount.io](http://www.magnemount.io)