

Metal & Cable Corp., Inc.

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July 6, 2021

Thank you for your interest in our non-penetrating Magnemount (Patents #7,624,957, 9188276, and 9472937) antenna/equipment and cable mounting system for steel tanks. The Magnemount uses permanent magnets made from a special blend of ceramic materials to achieve its holding power. These magnets, coupled with a unique independently suspended mounting system, allows the Magnemounts to be used on single and double convex curved, as well as flat steel surfaces.

All of the designs described below can be modified to accommodate your specialized needs.

Note: The capacities detailed in this letter are based on mounting the equipment on surfaces with a diameter of 50 feet or greater. Surfaces with less than 50 feet diameter should have testing conducted for tensile and shear data to be used in structural calculations.

Data for Structural Calculations on ASTM A36 plate of .250" minimum thickness and .013" maximum thick paint coating. **Please note: No safety factor is included.**

- 1) Pull capacity for each 24" x 24" plate is 1100#
- 2) Shear capacity for each 24" x 24" plate is 500#
- 3) Pull capacity for the CT1000-24-U-2 cable mount is 80#
- 4) Shear capacity for the CT1000-24-U-2 cable mount is 40#
- 5) Pull capacity for the CT1000-24-U-4 cable mount is 160#
- 6) Shear capacity for the CT1000-24-U-4 cable mount is 80#
- 7) Pull capacity for the MMSA-38 cable holder is 30#
- 8) Shear capacity for the MMSA-38 cable holder is 20#

Model MB (Item number MB36-2)

- 600 #ft overturning moment
- Mast fixed/adjustable — fixed
- Footprint — 24" x 24"
- Mast size — 2"OD x .375"W x 36"L
- Clear mast space above support arms or guy wires — 26"
- Unguyed mast
- Price - \$2520.00
- Shipping container — No-charge corrugated carton, or a \$300.00 wood crate which can fit up to 6 mounts.

Model MA (Item number MA30-2)

- 600 #ft overturning moment
- Mast fixed/adjustable — adjustable
- Footprint — 24" x 24"
- Mast size — 2"OD x .375"W x 30"L
- Clear mast space above support arms or guy wires — 28"
- Unguyed mast
- Price - \$3560.00
- Shipping container — No-charge corrugated carton, or a \$300.00 wood crate which can fit up to 6 mounts

The 2-plate Model Side Tank Mount (Item number STM2)

- 1200 #ft overturning moment
- Mast fixed/adjustable — fixed
- 2 plates @ 24" x 24" separated by the distance required for the antenna.
- Mast sizes accepted — 3"OD x .250"wall x 144"long, or 4.5"OD x .250"wall x 144"long. (Note the 4.5"OD tube is the same outside diameter as a 4IPS pipe)
- All masts are clear anodized 6061-T6511 extruded aluminum with 35000PSI minimum yield strength.
- Mount comes with 4 U-bolts @ 1/2" diameter of 300 grade stainless and 4 stainless steel nuts
- Dimension from the tower to the top of the mounting plate is 15.5 inches.
- Price — \$5470.00
- Shipping container - \$350.00 The container can hold up to 4 STM2 Magnemounts. Example: An order of 8 STM2 would require 2 containers, plus an additional container for the masts.

The 3-plate Model Side Tank Mount (Item number STM3)

- 1800 #ft overturning moment
- Mast fixed/adjustable — fixed
- 3 plates @ 24" x 24" with the top and bottom plates separated by the distance required for the antenna and the third plate in the middle.
- Mast sizes accepted — 3"OD x .250"wall x 144"long, or 4.5"OD x .250"wall x 144"long. (Note the 4.5"OD tube is the same outside diameter as a 4IPS pipe)
- All masts are clear anodized 6061-T6511 extruded aluminum with 35000PSI minimum yield strength.
- Mount comes with 6 U-bolts @ 1/2" diameter of 300 grade stainless and 4 stainless steel nuts
- Dimension from the tower to the top of the mounting plate is 15.5 inches.
- Price — \$7765.00
- Shipping container - \$350.00 The container can hold up to 3 STM3 Magnemounts. Example: An order of 9 STM3 would require 3 containers, plus an additional container for the masts.

The 4-plate Model Side Tank Mount (Item number STM4)

- 2400 #ft overturning moment
- Mast fixed/adjustable — fixed
- 4 plates @ 24" x 24" with the top and bottom plates separated by the maximum possible
- Mast sizes accepted — 3"OD x .250"wall x 144"long, or 4.5"OD x .250"wall x 144"long. (Note the 4.5"OD tube is the same outside diameter as a 4IPS pipe)
- All masts are clear anodized 6061-T6511 extruded aluminum with 35000PSI minimum yield strength.
- Mount comes with 8 U-bolts @ 1/2" diameter of 300 grade stainless and 4 stainless steel nuts
- Dimension from the tower to the top of the mounting plate is 15.5 inches.
- Price — \$10060.00
- Shipping container - \$350.00 The container can hold up to 9 STM Magnemount plates. A separate crate is needed for the masts.

The 5-plate Model Side Tank Mount (Item number STM5)

- 3000 #ft overturning moment
- Mast fixed/adjustable — fixed
- 5 plates @ 24" x 24" with the top and bottom plates separated by the maximum possible
- Mast sizes accepted — 3"OD x .250"wall x 144"long, or 4.5"OD x .250"wall x 144"long. (Note the 4.5"OD tube is the same outside diameter as a 4IPS pipe)
- All masts are clear anodized 6061-T6511 extruded aluminum with 35000PSI minimum yield strength.
- Mount comes with 10 U-bolts @ 1/2" diameter of 300 grade stainless and 4 stainless steel nuts
- Dimension from the tower to the top of the mounting plate is 15.5 inches.
- Price — \$12350.00
- Shipping container - \$350.00 The container can hold up to 9 STM Magnemount plates. A separate crate is needed for the masts.

Model MASS (Item number MASS48-2)

- 1650 #ft overturning moment
- Mast fixed/adjustable — adjustable
- Footprint — 72" x 72"
- Mast size — 2"OD x .375"W x 60"L
- Clear mast space above support arms or guy wires — 23"
- Guyed mast
- Price - \$10770.00
- Shipping container — \$350.00 This container can hold up to 3 Magnemount MASS models.

Model MASS Cell (Item number MASSCELL108-2)

- 1650 #ft overturning moment
- Mast fixed/adjustable — adjustable
- Footprint — 72" x 72"
- Mast size — 2"OD x .375"W x 120"L
- Clear mast space above support arms or guy wires — 70"
- Guyed mast
- Price - \$10770.00
- Shipping container — \$350.00 This container can hold up to 3 Magnemount MASS models.

Model MASS XL (Item number MASSXL131-2)

- Capacity: 1650 #ft overturning moment
- Mast fixed/adjustable — adjustable
- Footprint — 72" x 72"
- Mast size — 2"OD x .375"W x 144"L
- Clear mast space above support arms or guy wires — 36" standard, but can be modified to up to 90"
- Guyed mast
- Price - \$10770.00
- Shipping container — \$350.00 This container can hold up to 3 Magnemount MASS models.

Model Stability Mount (Item Number STABILMT)

- Capacity: 1100# vertical, 500# shear
 - Application: Commonly, reinforcing railings and stabilizing towers mounted on catwalks
 - Stability Mounts can be linked for higher capacity
 - Attachment: 304 grade stainless steel forged eyebolt in the center of the plate
 - Footprint — 24" x 24"
 - Price - \$1500.00
 - Shipping container: no charge corrugated carton on a pallet, unless over 6 ordered. Then, a \$300.00 shipping crate is required
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Cable and cable tray holding systems

Model Cable Holder (Item number CT1000-24-U-2)

This model should only be used for holding cable and conduit WITHOUT A TRAY OR COVER.

- Uses heavy duty 12 Gage 304 SS Unistrut framing channel for long maintenance free life.
- Uses Unistrut clamps for holding cables or cable tray. The Magnemount magnets come standard with 300 grade stainless steel hardware.
- Spacing on tank: Minimum recommended spacing is every 2 feet for vertical applications and every 3 feet for horizontal applications (across the tank top). Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Capacity — 80# perpendicular to the surface / 40# shear to the surface.
- Price - \$100.00

Model Cable/Cable Tray Holder (Item number CT1000-24-U-4)

This model can be used for holding cable and conduit with or without a tray or cover.

- Uses heavy duty 12 Gage 304 SS Unistrut framing channel for long maintenance free life.
- Uses Unistrut clamps for holding cables or cable tray. The Magnemount magnets come with 300 grade stainless steel hardware.
- Spacing on tank: Minimum recommended spacing is every 2 feet for vertical applications and every 3 feet for horizontal applications (across the tank top). Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Capacity — 160# perpendicular to the surface / 80# shear to the surface.
- Price - \$170.00

Our new, highest capacity cable tray model. Model Cable/Cable Tray Holder (Item number CT1000-24-U-5)

This model can be used for holding cable and conduit with or without a tray or cover.

- Uses custom made heavy duty 12 Gage 304 SS Unistrut framing channel for long maintenance free life.
- Uses Unistrut clamps for holding cables or cable tray (across the tank top). The Magnemount magnets come with 300 grade stainless steel hardware.
- Spacing on tank: Minimum recommended spacing is every 2 feet for vertical applications and every 3 feet for horizontal applications. Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Capacity — 200# perpendicular to the surface / 100# shear to the surface.
- Price - \$205.00

Model SA-38 Cable Holder (Item number MMSA-38)

This model can only be used for holding a single cable.

- We attach a Commscope model SA-38 adapter to our high strength magnets and our patented flexible mounting system
- Capacity — 30# perpendicular to the surface / 20# shear to the surface.
- Spacing on tank: Minimum recommended spacing is every 2 feet for vertical applications and every 3 feet for horizontal applications (across the tank top). Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Price - \$43.00