

Metal & Cable Corp., Inc.

(P) 330-963-7909, david@metal-cable.com

May 1, 2017

Thank you for your interest in our non-penetrating Magnemount (Patents #7,624,957 and 9188276) 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 standard hardware holding the magnets is designed for tank surfaces with a diameter of 50 feet minimum. If the diameter is smaller than 50 feet, we must be notified because longer bolts may be needed for adequate adjustment capability.

Data for Structural Calculations on ASTM A36 plate of .250" minimum thickness and .015" maximum thick paint coating.

- 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#

An independent testing lab will soon have overturning moment data for all cable and cable tray models. That data will be posted as soon as it is available.

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 - \$2175.00
- 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 - \$3075.00
- 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 @ ½" diameter of 300 grade stainless and 4 stainless steel nuts
- Price – \$4725.00
- Shipping container - \$300.00 The container can hold up to 5 STM2 Magnemounts. Example: An order of 9 STM2 would require 2 containers. An order for 12 STM would require 3 containers.

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 @ ½" diameter of 300 grade stainless and 4 stainless steel nuts
- Price – \$6700.00
- Shipping container - \$300.00 The container can hold up to 3 STM3 Magnemounts. Example: An order of 9 STM3 would require 3 containers. An order for 12 STM would require 4 containers.

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 - \$9300.00
- Shipping container – \$300.00 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 - \$9300.00
- Shipping container – \$300.00 This container can hold up to 3 Magnemount MASS models.

Model MASS XL (Item number MASSXL131-2)

- 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 - \$9300.00
- Shipping container – \$300.00 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 - \$1290.00
 - Shipping container – No-charge corrugated carton
-

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. Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Capacity – 80# perpendicular to the surface / 40# shear to the surface.
- Price - \$85.00

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. Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Capacity – 160# perpendicular to the surface / 80# shear to the surface.
- Price - \$140.00

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. 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 - \$175.00

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 + patented flexible mounting system
- Tank minimum diameter for use of this type of cable mount at rated capacity is 50 feet. Smaller diameter tanks would have the capacity down-rated, please call for rating. **This type of cable mount is not intended for tower legs.**
- Capacity – 40# 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. Spacing recommended by Structural Engineers reflecting local conditions prevail.
- Price - \$36.50