

RIGID MAST ARM MOUNT

CABLE TYPE



- *Clamp Halves Have Serrated Faces to Index in 2° Increments. Positive Locking - No Spin Here!*
- *The Ultimate in Versatile Flexibility.*
- *Time Saving Ease of Installation.*
- *Adjusts in Height, Rotationally and Angularly.*
- *Available in One-Way, Two-Way & "Cluster" Arrangements.*
- *All High-Strength Materials Used.*
- *All Hardware is Stainless Steel.*
- *Ribbed Support Tube Available in Different Lengths.*
- *Interchangeability of Components with Other Major Brands.*



Rigid Mast Arm Clamp - Cable Type



Close-up of Serrated Teeth

GENERAL DESCRIPTION:

The "RM" series is a truly versatile signal mounting system designed for rigid mast arm applications. Available in several configurations for multiple section signal installations, the assembly allows complete adjustability for vertical as well as horizontal type mounting. Installation of the "RM" series is quick and easy, thanks to the cable-type "choker" and single stainless chase nipple attachment. Matching serrated faces on clamp halves allow precision adjustment of 2° and positive locking. Unlike other manufacturers designs, which rely on "deforming" one casting to "grip" the mating casting (and ultimately stress cracking one of the castings) the "RM" series keeps both halves "solid" and "locked up tight." Top and bottom mounting "arms" attach signal to support tube, which conceals the cable wiring from the mast arm.



**General
Traffic
Equipment
Corporation**

259 Broadway, Newburgh, NY 12550

(845) 569-9000

TOLL FREE:

(800) 222-2828

FAX:

(845) 569-1800

EMAIL:

info@generaltrafficequip.com

www.generaltrafficequip.com



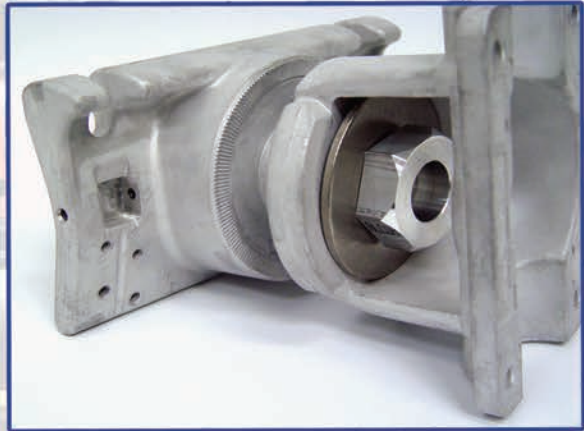
SPECIFICATIONS



Adjustment for height is made and two "U" bolts are tightened. Adjustment for rotary alignment is made and the large stainless chase nipple is tightened. The various setscrews on the mounting arms are tightened and the installation is complete.

MAST ARM CLAMP - (RMAC - 62)

This "Clamp" assembly shall consist of two castings (female half and tube saddle) a $\frac{3}{16}$ " aircraft cable of either a 62" or 84" length with stainless steel $\frac{7}{16}$ " threaded ends, clamping blocks to hold the cable, large hex head chase nipple - stainless steel of $1\frac{1}{2}$ " SAE fine thread, hardware such as washers, bolts, nuts and retaining rings. The two casting halves shall be cast from 356-T6 aluminum alloy and shall be precision machined by CNC machining methods. The casting



faces shall have matching serrations machined in place in 2° increments. A shoulder shall also be cast in to prevent un-intentional misalignment of the "faces." Two "U" bolts (stainless steel) with nuts and washers shall hold the support tube to the "tube saddle" casting.

RIBBED SUPPORT TUBE - (GUST - length - TOE)

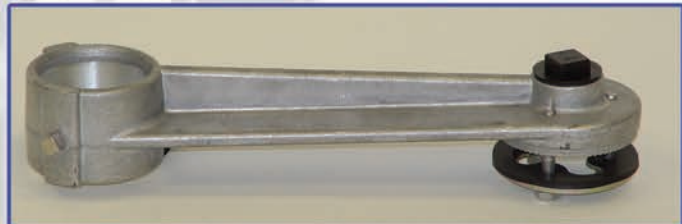
The support tube shall be extruded from 6061-T6 aluminum alloy. The O.D. shall be sufficient to allow for threading one end $1\frac{1}{2}$ " - $11\frac{1}{2}$ " NPSM with the addition of a filler piece. A slot shall run completely down the length. A vinyl mating strip shall effectively "close" the slot and seal the interior of the tube from water intrusion. Two connecting ribs shall be integral to the extrusion on the interior, designed to strengthen the tube while keeping the wireway open. A plastic fitted cap shall cover the top of the tube.

LOWER MOUNTING ARM - (RM - 1000 - LMA)

The lower mounting arm shall be cast from 356-T6 aluminum alloy and shall be precision machined by CNC machining methods. One end shall have 72 serrated teeth cast in place and three tapped holes ($\frac{5}{16}$ -18) integral to the serrated section for mounting the signal head. The opposite end of the arm shall have an $1\frac{1}{2}$ " - $11\frac{1}{2}$ " NPSM tapped opening to allow mating with the support tube. Two $\frac{5}{16}$ -18 square head setscrews shall lock in the support tube. The underside of the "arm" shall be "grooved" for placement of an ABS plastic cover, which slides in place and "snaps" into position. The underside of the casting shall be "hollow" to allow for cable wiring entry.

UPPER MOUNTING ARM - (HA - 1201TS)

The upper mounting arm shall be precision die-cast of #413 aluminum alloy and shall be precision machined by CNC machining methods. One end shall have 72 serrated teeth cast in place in 5° increments and



three tapped holes ($\frac{5}{16}$ -18) integral to the serrated section for fastening the signal head. The opposite end of the arm shall have an opening which shall be precision "reamed" to slip-fit over the diameter of the support tube. Two $\frac{5}{16}$ -18 setscrews shall be installed to lock in the arm to the support tube after the signal is fastened.

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SPECIFICATIONS



PART NUMBER	DESCRIPTION
RMAC-62	Mast Arm Clamp Assembly, Cable Type, 62" Cable
RMAC-84	Mast Arm Clamp Assembly, Cable Type, 84" Cable
RMAC-96	Mast Arm Clamp Assembly, Cable Type, 96" Cable
RM-1000C-62	Rigid Mast Arm Mount, One Way, Cable Type, 46" Tube Length, 62" Cable Length
RM-1000C-84	Rigid Mast Arm Mount, One Way, Cable Type, 46" Tube Length, 84" Cable Length
RM-1000C-96	Rigid Mast Arm Mount, One Way, Cable Type, 46" Tube Length, 96" Cable Length
RM-1000C-62-4	Rigid Mast Arm Mount, One Way, Cable Type, 58" Tube Length, 62" Cable Length
RM-1000C-84-4	Rigid Mast Arm Mount, One Way, Cable Type, 58" Tube Length, 84" Cable Length
RM-1000C-96-4	Rigid Mast Arm Mount, One Way, Cable Type, 58" Tube Length, 96" Cable Length
RM-1000C-62-5	Rigid Mast Arm Mount, One Way, Cable Type, 74" Tube Length, 62" Cable Length
RM-1000C-84-5	Rigid Mast Arm Mount, One Way, Cable Type, 74" Tube Length, 84" Cable Length
RM-1000C-96-5	Rigid Mast Arm Mount, One Way, Cable Type, 74" Tube Length, 96" Cable Length
RM-2000C-62	Rigid Mast Arm Mount, Two Way, Cable Type, 46" Tube Length, 62" Cable Length
RM-2000C-84	Rigid Mast Arm Mount, Two Way, Cable Type, 46" Tube Length, 84" Cable Length
RM-2000C-96	Rigid Mast Arm Mount, Two Way, Cable Type, 46" Tube Length, 96" Cable Length
RM-2000C-62-4	Rigid Mast Arm Mount, Two Way, Cable Type, 58" Tube Length, 62" Cable Length
RM-2000C-84-4	Rigid Mast Arm Mount, Two Way, Cable Type, 58" Tube Length, 84" Cable Length
RM-2000C-96-4	Rigid Mast Arm Mount, Two Way, Cable Type, 58" Tube Length, 96" Cable Length
RM-2000C-62-5	Rigid Mast Arm Mount, Two Way, Cable Type, 74" Tube Length, 62" Cable Length
RM-2000C-84-5	Rigid Mast Arm Mount, Two Way, Cable Type, 74" Tube Length, 84" Cable Length
RM-2000C-96-5	Rigid Mast Arm Mount, Two Way, Cable Type, 74" Tube Length, 96" Cable Length
RM-5C-5000C-62	Rigid Mast Arm Mount, "5-Section Cluster Type", 37" Tube Length, 62" Cable Length
RM-5C-5000C-84	Rigid Mast Arm Mount, "5-Section Cluster Type", 37" Tube Length, 84" Cable Length
RM-5C-5000C-96	Rigid Mast Arm Mount, "5-Section Cluster Type", 37" Tube Length, 96" Cable Length
RM-AK-9-U/L-SS	Arm Kit, 9" Length, Upper & Lower Arms, Stainless Steel Hardware
RM-AK-2TS	Arm Kit, 9" Length, (2) Upper Arms, Tapped for 0.75" CGB, Stainless Steel Hardware

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General Traffic Equipment



SPECIFICATIONS



MAST ARM MOUNTS - CABLE TYPE



Strengthening Support Ribs added to ensure the elimination of "Cracking" the casting due to overtightening



ARM KITS

