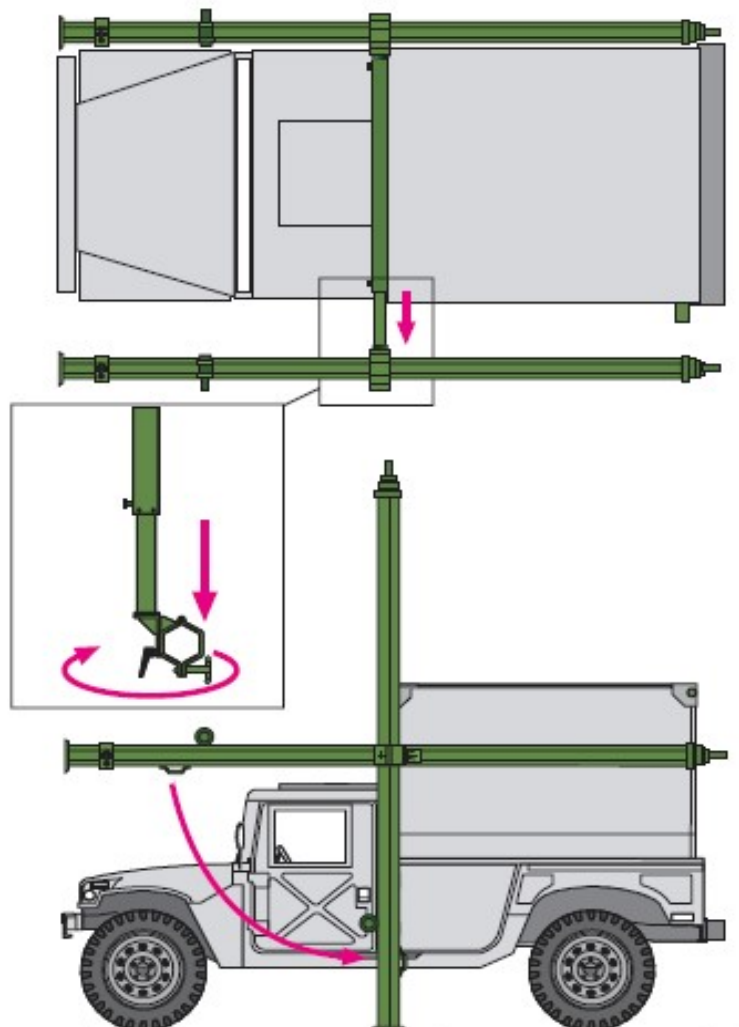


Technical Description

Modern telescopic mast headload demands are increasing. Larger and heavier antennas, requiring more precise pointing, erected to greater heights by fewer crewmen are trends being experienced. To effectively and safely meet these increasing demands Comrod offers a wide variety of mounting brackets and launching mechanisms designed to allow a crew of one or two operators to quickly and safely deploy heavily loaded telescopic mast systems. Comrod's experienced engineering staff are ready to tailor our proven transport and operational assist technology to your specific requirement. For TM128 and TM150 mast series applications the Pull-out Assist Mechanism (PAM) is recommended.

PAM (Pull-out Assist Mechanism)

The PAM main components are inner and outer square tubes, friction clutch and clamp for holding the mast. The outer square tube is used to mount the assembly to the shelter wall of the roof of the transport vehicle. The inner square tube is connected to the mast clamp by a spring loaded friction clutch and is extended or retracted by means of roller wheels. The outboard and inboard movement of the inter square tube is contained by a spring loaded retaining catch and a screw lock. Rotation of the mast is resisted by a spring loaded friction clutch. Ideally, force must be applied to rotate the mast.



MecPAM

The mechanical MecPAM bracket system has been developed to deal safely and effectively with the taller masts with heavier headloads. MecPAM is recommended for use with TM 170 and above series masts.

Technical Description

The MecPAM main components are inner and outer square tube that telescopes by a screw drive. The outer square tube is used to mount the assembly to the shelter wall or the roof of the transport vehicle. A worm gear is used to rotate the mast from horizontal transport position to vertical and a rack gear hoist and lowers the mast to compensate for uneven ground conditions. Tilting of the mast is performed with a rigging screw that can compensate for a vehicle roll of 10%. All movements of the mast is locked by mechanical gear or screw drives which makes it possible to safely handle high loads.



The MecPAM with its electric powered movement control with manual crank backup provides for the safe, speedy and precise deployment and recovery of 25 meter mast with heavy headloads up to 120 kg (264 lbs) by a crew of two.