

# MILITARY

**ELECTROMECHANICAL  
MECMASTS**

**PNEUMATIC MASTS WITH LOCKING  
SYSTEMS**

**PORTABLE FIELD  
SOLUTIONS**





## MECMAST

The electromechanical Mecmast offers a unique combination of impressive lifting strength, sturdiness, outstanding reliability and high precision. It is easy and safe to operate and versatile with numerous interface options. The Mecmast is an excellent solution for multiple military applications in the fields of communication, reconnaissance, security, surveillance, boarder control and target detection.

## Key features

- Supports heavy payloads up to 400kg (882 lbs)
- Extended heights available up to 30m (98 ft)
- Retracted heights available from less than 1m (less than 3 ft)
- Operates at any intermediate height position
- Great variety of “off-the-shelf” solutions as well as customized solutions
- Wide range of mounting bracket options
- for installations on vehicles (usable while vehicle is moved), in shelters or on open grounds
- Performance proven rugged design guarantees for high resistance to demanding and harsh environment conditions including sand, dust, ice or snow
- Compliant with MIL-STD-810F, MIL-STD-810G, MIL-STD-461F and many others
- Durable and reliable with minimal maintenance requirements
- Manual backup system
- Different protocols are available, e.g. RS422, RS485, CAN bus
- Customized protection bellows





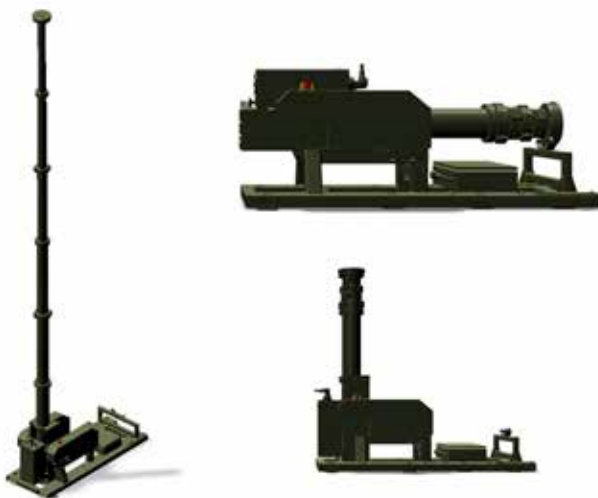
## Controls

The exact position is controlled by an encoder and the desired height can be preset using various interface options such as a PC, a touchscreen or different remote controls with or without display.

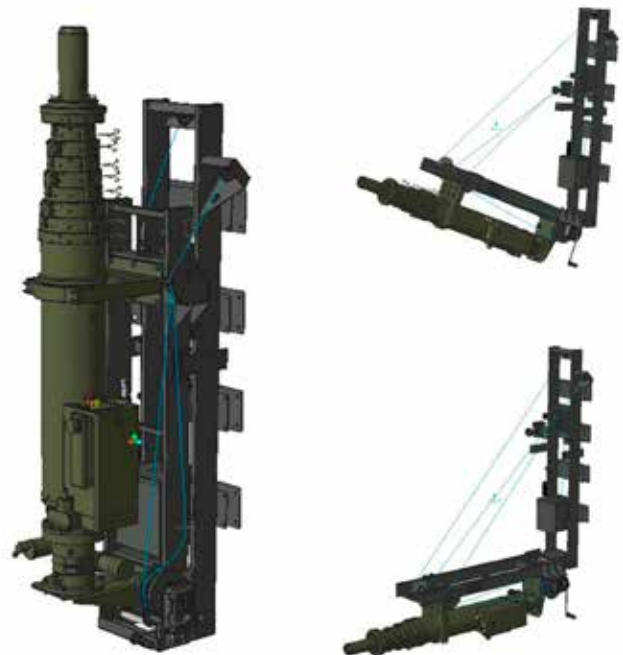


## Tilting solution Mecmast

The tilting solutions for the electromechanical masts are a perfect option for all applications in which the retracted height or the mounting of heavy payloads are critical factors.



The Mecmast ROOF is a compact palletized configuration suitable for installations on vehicle platforms such as military trailers or trucks. Fireco manufactures a heavier as well as a lighter version of this product, both designed to perfectly suit customers' needs.



The 90° tilt mechanism is a unique device that is suitable for mounting on the outside of a vehicle or other structures. This mechanism allows for the tilting down of an electromechanical mast to a reachable horizontal position so that important payloads can be mounted easily in place.

# Pneumatic masts with Locking systems

The pneumatic masts with locking systems can be kept extended for long periods without internal air pressure.

Two different solutions are available:

- The Steady series is equipped with metal bands which embrace the single mast sections. These bands can be tightened so to keep the sections locked by friction.
- The Super Steady series is equipped with mechanical locking devices. Each section is provided with lever handles which will insert two bullet latches in two slots on the tube.
- In comparison with the Steady version, this model offer an even greater resistance: It allows a longer extension time as well as the mounting of heavier payloads.



The Steady and Super Steady masts meet the most demanding requirements of transportable communications, intelligence, surveillance and security systems for military applications.

## **Super Steady masts in semiautomatic and “easy” version.**

It is possible to provide the Super Steady masts with a semiautomatic or fully automatic locking system. The semiautomatic version works with the help of cords on the locking levers which allow for an operation from a safe distance. The fully automatic “easy” version is intuitive to handle and may be operated from a remote position.



## Key features

- Steady masts available with base diameters from 77mm up to 250mm
- Super Steady masts available with base diameters from 115mm up to 340mm
- Extended heights available up to 40m (131 ft)
- Great variety of “off-the-shelf” solutions as well as customized solutions
- Wide range of available mounting and guying accessories
- Solutions with internal cable or with external cable guides in various forms
- Optional special sand scraper rings for dusty and/or harsh environments
- Very low maintenance requirements
- Customized protection bellows

## Portable field solutions

Fireco offers a wide range of manual and pneumatic masts that are suitable for all kinds of portable field applications. These masts are relatively light, can be setup quickly and extended manually, by hand pumps or air compressors. For the installation of smaller antennas, cameras and various communication equipment they are a perfect solution with an excellent value for money. A great variety of tripods, four-leg assemblies, mounting kits and guying accessories or transport bags is available.







## Accessories



- GUYING ROPES
- CARRYING BAG
- PICKET FOR ROPES
- MANY OTHERS

## Pan & tilt

Fireco can also offer you premium quality Pan & Tilt systems for payloads up to 120kg with various features such as Gyro stabilization and target tracking modules. Integrated with our telescopic masts, these compact systems stand for highest accuracy even in the most demanding conditions which makes them a perfect solution for all land, air and sea applications.





## Common features

All masts are made of anodized aluminum tubes.

This treatment guarantees for:

- improved corrosion resistance
- increased surface hardness
- increased wear and abrasion resistance
- moderate heat insulation

Hard anodization is also available as well as a wide variety of different anodization and painting colors, some examples of which you will find below:



Fireco stand for best quality, highest reliability and maximum flexibility. Our aim is to find the best system solution for each customer's specific applications.





For enquiries, requests or questions of any kind, please don't hesitate to contact us. You will find our and our branches' contact details on the backside of this brochure.









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