

SUPER STEADY FULL AUTOMATIC MECMAST





DEUTROTTER

中国电信
CHINA TELECOM

中国电信
CHINA TELECOM

330

总质量17000kg



国家应急通信
National Emergency Communications

天翼视讯



SUPER STEADY FULL AUTOMATIC

Whenever important payloads need to be elevated for extended periods, our pneumatic masts with locking systems are the perfect solution. Designed specifically for all kinds of industrial applications that require high lifting capacities to be combined with long-lasting deployment, Fireco's locking masts stand out for their high reliability and are easy to operate at the same time. The pneumatic masts with locking systems can be kept extended for long periods without internal air pressure.



THE FULL AUTOMATIC SUPER STEADY MAST



The **SUPER STEADY FULL AUTOMATIC** model meets the most demanding requirements of mobile communication, intelligence, surveillance and security systems for military and civilian applications.

Super Steady in **Full Automatic** version is an innovative and patented telescopic mast with a locking system able to operate automatically and thus relieving the operator from the duty to manually unlock/lock each section. The operator can work at a safe distance and decide the height of the mast. The mechanical concept of the Full Automatic Super Steady has been paired to an electro-pneumatic driving system with integrated safety features, allowing operations via an electronic control box.

Depending on needs or on situations, the mast can work in two modes:

Automatic: for complete extension and retraction

Manual: for extending and retracting the mast manually

The sections can be left in fully extended position without pressurised air inside the mast and the mast can support heavy payloads for long periods.

Backup: in the situation of a sudden power supply failure, the mast can be operated via an emergency backup mode, allowing trained personnel to retract the mast safely.



KEY FEATURES

- *It removes the need to follow some of the most critical safety procedures for operating the mast, allowing faster operations in deployment and reaction*
- *It reduces training costs and improves the installation safety*
- *Maintenance can be performed by skilled personnel with minor and fast efforts as main components are easily accessible*
- *It can support heavy payloads up to 500 kg*

SAFETY COLLAR



The section collar of the main tube ring is equipped with pneumatic actuators, which are directly driven by the control system. When the mast is extended, they automatically lock the section; when the mast has to be retracted, the section cannot be unlocked if the air supply is missing or if the internal pressure has not reached a sufficient value. As soon as both conditions are met, the retraction procedure in both automatic and manual modes can be safely started.



CONTROL BOX

The Full Automatic mast works with a control box that drives a set of electro-pneumatic valves installed in a box nearby the mast. The control box has an intuitive and simple interface, equipped with few clear commands.



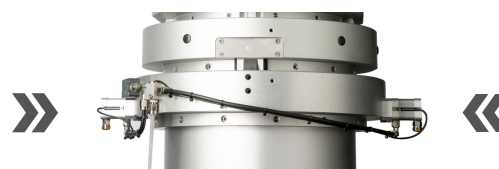
ELECTRO-PNEUMATIC BOX

The electro-pneumatic box contains the core elements to drive the air in and out of the mast both during the regular operations and during the manual mode. It houses the delivery valves, all solenoids and the connections to feed both the current and the air to cylinders of the locking keys on the outer tube.



ACTUATORS

The two pneumatic actuators on the mast open the locking keys on the outer section. They communicate directly with the control box and are both necessary for safety and to allow the correct operation of the Full Automatic system.



PNEUMATIC FEED SPLITTER

The pneumatic feed splitter is connected to the electro-pneumatic box and supplies air to the two pneumatic actuators.



MICRO SWITCH

The micro switch on the main tube engages with an activating bracket fixed on the mast head and signals the state of the mast (fully retracted/not fully retracted).



LOCKING SYSTEM

The automatic locking technology is based on a subsystem fully enclosed inside each ring, giving an external surface that is free from possible undesired catch points





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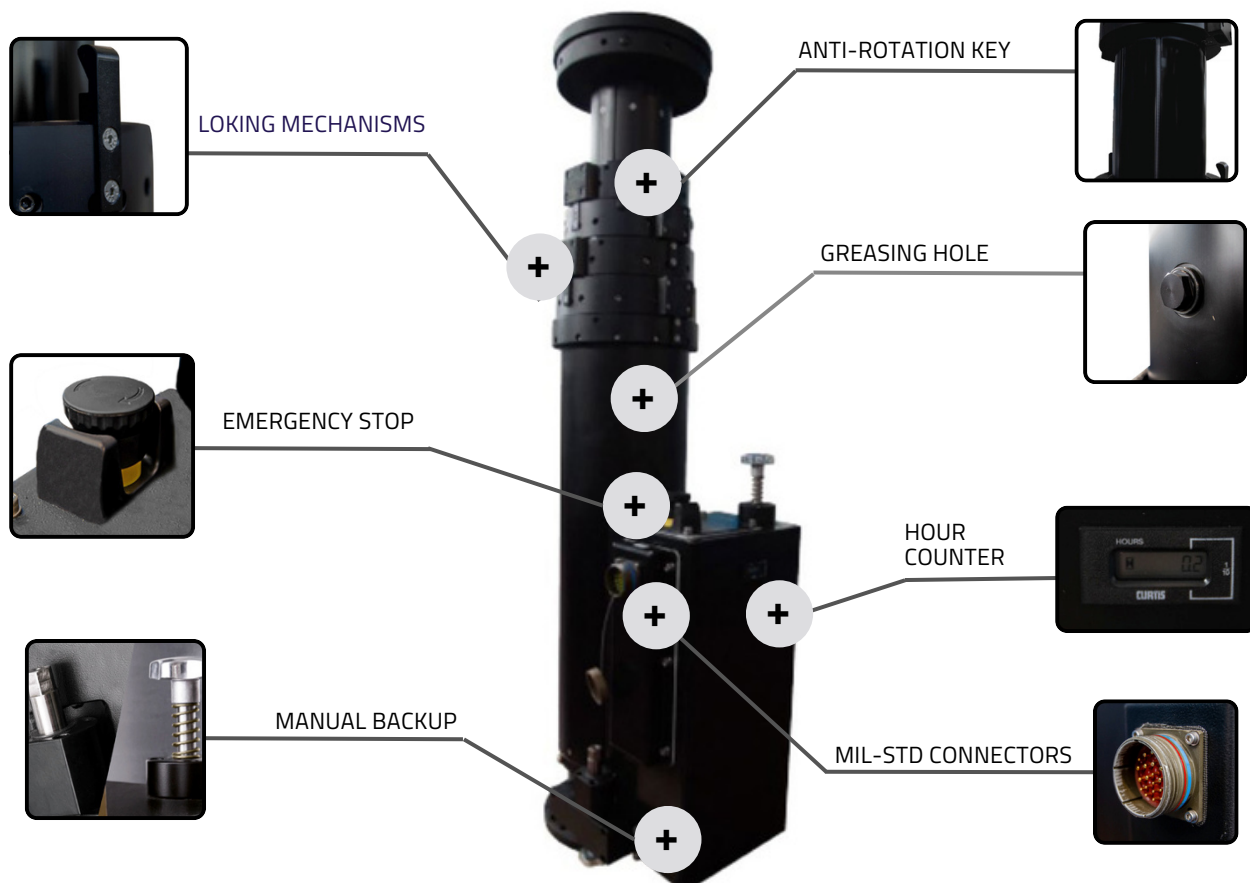
MECMAST

The MecMast offers a unique combination of impressive lifting strength, sturdiness, outstanding reliability and high precision. It is a screw-driven telescopic mast that has been designed to satisfy the specific demand of all kinds of applications in military, communication and surveillance fields.



MECMAST

The MecMast is an excellent technical solution whenever the need to carry out heavy duties is required and precise high accuracy is a critical factor. It also requires low maintenance making it an ideal solution for military and civilian applications. The exact position and the desired height can be displayed using various interface options such as PCs or laptops and different remote controls.



KEY FEATURES

- Supports heavy payloads up to 1000 kg
- Extended heights up to 25 m
- Keeps the height and is operative at any intermediate position
- Great variety of "off-the-shelf" and customised solutions
- Wide range of mounting options for installations on vehicle, 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-810G, MIL-STD-461F, MIL-STD-1275E, MIL-STD-1686C e MIL-STD-464C
- Durable and reliable with minimum maintenance requirements
- Different communication and control protocols are available (e.g. RS422, RS485, Ethernet, Can bus)

CONTROLLING THE MECMAST

The MecMast is controlled by a software loaded on a USB drive supplied together with the mast. By installing it, the operator will be able to control the MecMast from a PC or a laptop. The control screen will display the exact extended height, the turning degrees (for MecMast with electrically turnable base), the actual current consumption, the working cycles and possible warning messages.

The software is available in different languages. In addition, a simple remote control for up/down movements and a complete remote control with LCD display for all functions are also available.

A. Simple remote control

B. Remote control with LCD display

C. Software program for laptop/pc use with full control of the system



ALTERNATIVE COATING

The Full Automatic Super Steady masts are standard silver anodized and the MecMasts in black. 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 colours, some examples of which you will find below



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





Credits

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