

SUPER STEADY FULL AUTOMATIC



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 a partial extension and retraction and as emergency backup mode.

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 retraction
- 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 500kg



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.

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.

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

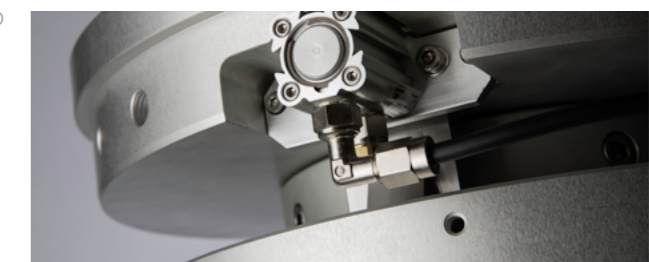
MICRO SWITCH

SAFETY COLLAR



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.



The bottom 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 can't be unlocked if the air supply is missing or if the inner pressure has not reached the safety value. As soon as both conditions are met, the retraction sequence in both automatic and manual modes can be safely started.

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