

Telescopic lightmast

For signal and anchor lights

The lightmast for the signal and anchor lights is installed on the yacht bow to allow compliant navigation of ships 50 meters or longer.

The AMS' telescopic lightmast is composed of three carbon fibre stages and can be fully retracted into its housing for flush use on a helideck.

AMS has designed and manufactured the first telescopic light mast equipped with a self-cleaning water jet system. This patented system ensures effective automatic cleaning of the outer surface of the mast, avoiding the potential risk of scratches due to the presence of any debris or foreign objects.

KEY ADVANTAGES

- ⬡ Carbon fibre stages
- ⬡ Flush use on helidecks
- ⬡ Waterproof housing
- ⬡ No cable winder. The electrical cable is completely hidden inside the system (patented). The system is totally sealed
- ⬡ No stays needed. A spring loaded system (patented) stiffens the mast once completely open
- ⬡ The mast is supplied into its housing after FAT. A turnkey product ready to be installed
- ⬡ Unique fresh water spray cleaning system (patented)

Every AMS telescopic lightmast is fully designed and tailored to fit the customer's requests.





Lights height from deck	Suitable for any yacht over 50mt LOA.
Telescopic stages material	Prepreg epoxy carbon fibre.
Internal stiffening system (patented)	AMS' mast can withstand any weather condition without stays thanks to an internal stiffening system.
Standard version weight	≈ 750kg with stainless steel housing and actuator.
Light version weight (on request)	≈ 400kg with aluminium housing and actuator.
Housing (fixed tube) diameter	≈ 400 mm.
Operating system	Hydraulically actuated. Pneumatically actuated version under development.
Control system	IP55 electric switchboard for local operation provided with programmable logic controller. Configured for remote operation from the wheelhouse or other location.
Hydraulic power unit	Hydraulic power pack provided with a 3kW three-phase motor and a 21l/min pump. Hand pump for emergency operation included.
Power supply	Operating voltage, 400Vac, 50Hz. If required, the switchboard can be provided with a configuration for a 24Vdc auxiliary power supply (e.g. from the on-board batteries) in order to keep the mast status signals active during decommission period.
Electrical cable	Multiflex RR 18x1 cable. From the waterproof box, installed on the mast bottom, through a sealed cable transit device, ready to be connected to the on-board supply.
Lights orientation	Stages anti-rotational system installed inside the mast to prevent stages rotation, hence lights rotation.
Weather conditions	Designed to withstand, without stays, any sea condition the yacht is designed for.
Navigation lights	Designed for Cantalupi, Lopolight or any other navigation light.
Lights housing geometry	Any custom solution could be engineered on request.
Status signals reported on wheelhouse	Mast open, mast closed, waterproof box flooded.
Paint finish	Clear carbon look glossy or matt, or painted RAL or custom colour.