



**PROUDLY**  
**MADE IN THE UK**  
**SINCE 1923**

A tall, slender, silver antenna mast stands vertically against a clear blue sky. The mast is positioned in the center of the frame, extending from the bottom edge to the top. In the background, there are lush green trees and a blurred red train passing by at the bottom of the image.

**ANTENNA**  
**MASTS**

# ANTENNA MASTS

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CU Phosco Lighting has been working with mobile phone operators since the birth of mobile telecommunications and in that time has built a wealth of experience and knowledge in the design, manufacture, and on-time delivery of antenna masts and antenna mast packages.

Design calculations and checks must be undertaken to ensure the integrity of the antenna mast structure and that the antennas are operational within the specified limits of their manufacturers and mobile phone operators. The design team can advise on the most efficient method of upgrade of existing sites based on their knowledge and the company's flexible manufacturing capability.

The majority of our antenna mast products are manufactured from steel and are hot-dip galvanized and we are able to provide painting where specified.

## MONOPOLES

A monopole is a multi-sided column used as an alternative to lattice towers in heights normally ranging from 12m to 30m. A monopole usually has the ability to support 6, 9, or 12 off antennas as well as a number of microwave dishes. They are normally fitted with steps of some type and an anti-climb facility together with a certified fall arrest system. Monopoles are usually mounted in rural or industrial areas where their size is not significant and a large number of antennas can be fitted.

## STREETPOLES

This type of structure is a slimline design usually situated in a street-side location, either pavement or grass verge, in heights ranging from 8 to 20m. Designs can incorporate Dual-Stack and Single-Stack methods, to maintain an optimum shroud size while providing service for more than one operator. Dual-Stack is where there are two arrays of antenna stacked at different heights. Single Stack means that all antennas are located at the same height.

## ROAD LIGHTING POLES

Road lighting poles are, as the name implies, road lighting columns with antennas fitted. CU Phosco can manufacture these to our customers' requirements.

## HIGH MASTS

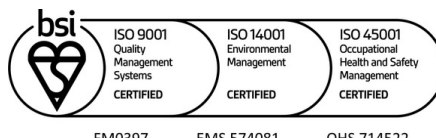
Our High Masts, which can be manufactured up to 60m in height, offer ease of maintenance with a simple and effective winching system that allows the lighting ring to be lowered to ground level for lantern maintenance. High Masts can be fitted with multiple antennas at greater heights than normal road lighting columns.

# ROOF AND WALL MOUNTED POLES

Structures of various heights can be fixed to buildings.

## BESPOKE SOLUTIONS

Our wide range of production capabilities enables us to produce bespoke one-off products designed by architects and sculptors which in some instances can incorporate antennas.



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