



## ANTENNA MASTS AND STREETPOLES

CU Phosco has been working with mobile phone operators since the birth of the mobile telecommunication industry and in that time have built up 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 mast structure and that the antennas are operational within the specified limits of their manufacturers and the 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 products are manufactured from steel and are hot dip galvanised and we are able to provide painted where specified. The products portfolio outlined gives a brief description of some of the types of masts and poles we have developed for our customers over the years.

### 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.

A special type of road lighting column is the high mast, up to 30 metres high, which 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.