



With a range of monopoles designed specifically for your needs, DHES can manufacture support structures for your cellular and microwave antenna systems. Heavy-duty poles for cyclonic conditions, as well as lightweight designs for more stable regions and low-wind-load antennas, with or without platforms, ladders and fall arrest systems, our products will simplify your telecommunications installations.

#### SPECIFICATIONS:

##### Design

Analysis and design using the most up to date computer modelling programmes, in accordance with the following standards and codes of practice: BS 449, AS 1170, parts (i), (ii) & (iv)

##### Wind Loading

DHES specializes in determining the wind-loading parameters for a given location and antenna type, working to customer specified or meteorological records. BSCP3-TR7 and AS 3995 are typical engineering standards that we are accustomed with, as well as alternative specifications such as RS 222

##### Deflection

Where limits of twist and sway are more critical, for example with microwave applications, DHES will investigate the optimum combination of pole profile and material thickness and grade, modifying designs accordingly to achieve our customers requirement

##### Construction

Our monopoles are designed with a high-quality, high-yield polygonal steel construction. In order to achieve required deflection specifications for a given wind-load, variations in material thickness and pole section are investigated. High-tensile holding-down bolts are supplied with all monopoles

##### Foundation

Our standard package includes all necessary drawings and schedules for foundations for normal soil condition. We are also able to advise and design alternative foundations, including piled foundations, should soil conditions dictate

##### Installation

We are able to quote for full installation in any world-wide location. Our services would include detailed site surveys and soil analysis, foundation design, installation and monopole erection

##### Accessories

Antenna mounts, cable fixings, work platform, grounding system, obstruction lighting, fall arrest systems and painting to ICAO regulations are all available options for DHES structures

