MID-HINGE ANTENNA MAST

Mid-Hinge Antenna masts are used in urban areas were maintenance, space and site acquisition constraints prevent the deployment of a BTS base station. Disguised as a street light these mast are available in heights ranging from 10 to 25 metres. A effective hinge action allows the antenna with streetlight to be lowered to the ground without the use of expensive maintenance equipment. The hinging action is safe and simple using a lightweight portable hand winch which requires minimum training to operate.

All electrical and radio frequency equipment is safely hidden inside the mast and only accessible once the mast is hinged opened. The structure is mounted onto reinforced concrete foundations designed by our engineers to suit the particular application and location where the mast will be installed.

LeBLANC's Mid-Hinge Antenna structure combines street lighting with communications, meeting both the expectations and requirements of operators and local authorities.

All masts are designed and fabricated in accordance with SANS 0225 and ISO 9001-2000

LeBLANC provide complete design, logistics, foundation installation, erection and maintenance of the Mid-Hinge Antenna structure.

- The mast caters for GSM application provide mounting facilities for various configurations of antennae and microwave placement.
- The antennae can vary from omni-directional single band collinear to the tri-band three sector antennae unit.
- Up to 18 coaxial feeder cables can fit into the mast centre with not less than three securing points for the feeder cluster.
- Highly flexible, low loss cables tails are used at the top and bottom of the mast in order to terminate to the pole mount or outdoor BTS.
- The BTS radio equipment can either be fitted directly on the structure or connected via "nextube" ducting through the concrete foundation.
- Provision can be made for a microwave unit to be secured by means of stand-off brackets to provide 360 degree azimuth.
- Provision can be made for the use of an electrical or mechanical operated "bosuns" chair in order to pan the antennae after erection.