

The M0CVO HW-40HP

The HW-40HP is an Off Centre Fed Dipole designed to operate on 40m (7MHz), 20m (14MHz) and 10m (28MHz) without an ATU and 60m, 15m, 6m and WARC Bands with an ATU. It will handle up to 400W CW or 500W PEP*. Having a feedpoint at 1/3 of the way along instead of halfway along gives a feedpoint impedance of approximately 200Ω. This is not ideal for modern day transceivers requiring an antenna with a 50Ω impedance. Therefore, a 4:1 current balun is added at the feedpoint to alter the impedance to something closer to the 50Ω required. This then allows the antenna to be fed using standard 50Ω coaxial cable such as RG8 or RG213.

The overall length of the antenna is 20.28m or 66'. It may be mounted horizontally, as a sloper, or as an inverted vee. If space is at a premium it may also be 'bent' to fit in with no loss in performance. Best performance will be seen when mounted at least one quarter wave above the ground at the lowest frequency (approx. 33' or 10m). It may be mounted lower if necessary but due to the varying nature of the ground below, the overall impedance and performance may be affected slightly.

* This power rating is for intermittent amateur (CW or SSB) use and not for AM broadcast or constant carrier data modes. For AM broadcast a much higher power BALUN is required.

See the review by Peter Dodd, G3LDO, in the August 2010 Radcom!

