

Type KDGT Guyed Tower

The KDGT is a “knock-down” tower intended for microwave applications, large antenna loads, or at sites where there are more stringent wind and ice loading combinations than commonly encountered. The X-bracing lacing scheme provides maximum strength, without sacrificing ease of assembly.

While a bolt-together tower requires more assembly time in the field, there are **two distinct advantages** over a welded tower. Most importantly, the bolt-together tower can be modified to meet changing loading. Legs and bracing members are individually sized to meet required loading at each tower elevation. Should future requirements dictate strengthening of a particular section, tower bracing members can be replaced in the field. The same holds true for members requiring replacement due to physical damage. Bolt-together towers also have the advantage of lower freight charges than do pre-assembled tower sections.

The KDGT is a triangular tower with face widths from 36 inches to 56 inches on a side. Member sizes may be varied to meet tower design loading. Legs are constructed of heavy structural steel formed to a 60 degree angle. All surfaces are exposed for inspection, eliminating the possibility of inside corrosion. The KDGT is composed of 4' bays and is X-braced for maximum rigidity throughout its entire length with solid rods. The bracing can vary in size and be modified easily, depending upon the loads it must carry in any given tower section.

Horizontal members are mounted at 4-foot intervals either inside, outside, or on both sides of the tower faces. Each member is punched with a predetermined number of holes per customer request for waveguide runs.

Towers come complete with climbing ladders and a cable-type safety climb. On towers with a face width of 48 inches or greater, the ladder is mounted internally so that two tower faces form a safety cage around the climber.

All towers are hot-dip galvanized after fabrication according to ASTM designation A-121. Towers can be painted on request, but with proper lighting, the painting of these towers can be totally eliminated, and maintenance is kept to a minimum.

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