

General Assembly & Installation Principles

Assembly and installation of heavy-duty brackets involve securing the brackets to a load-bearing wall and clamping the mast pipe between the bracket components.

1. **Select a Secure Location:** Choose a position on the building or structure that is far from power lines and capable of supporting the combined weight and wind load of the mast and antenna.
2. **Mount the Brackets:**
 1. Secure the main body of the brackets to the wall using appropriate heavy-duty fasteners (e.g., lag bolts for wood walls, expansion screws/threaded rods for masonry). Fasteners are often sold separately.
 2. Ensure the brackets are properly aligned (vertically) using a level and the specified distance between the brackets is maintained (typically 1/4 to 1/3 of the mast length, with a minimum of 2 feet).
 3. For maximum load transfer, consider using a back plate kit (like the 3S-HMK) on the opposite side of the wall, sandwiching the structure between two sets of angle brackets.
3. **Secure the Mast:**
 1. Place the mast pipe into the brackets. The mast is typically held in place using U-bolts or threaded bolts that clamp the pipe securely.
 2. Tighten all bolts and U-bolts firmly to prevent the mast from twisting or slipping.
4. **Install Antenna and Route Cables:**
 1. Mount the antenna to the mast according to the antenna's specific instructions.
 2. Route all coaxial cables and ground wires, ensuring they are secured to the mast and building and do not interfere with the assembly or function.
5. **Grounding:** Grounding/bonding is a highly recommended safety consideration, especially with taller masts or increased height in your installation.

Always refer to the manufacturer's specific instructions for the parts you purchase and ensure you follow all local safety and building codes.