



# Carry Case and Bag for Antenna Alignment Equipment

**The Problem:** Sensitive antenna alignment tools and monitoring systems require elevated protection and portability.

**Background:** Our customer supports a variety of industries with its antenna alignment tools. These tools are used in the field by technicians to ensure accurate readings. The customer needed to ensure that the equipment was safely protected while being stored and transported. Cost and weight were critical factors.

**The Solution:** Working with the customer, we designed a hard polyethylene case with a custom foam insert. The foam insert held the equipment in place and provided cushioning to protect the equipment. After this initial solution and production run, we worked with the customer to reduce cost by providing an injection molded case. The new case was lighter and lower in cost. However, we maintained the protection by using the same foam interior. C.H. Ellis is continually evaluating our projects to see if there is a better process or a lower cost that can be provided.

Besides the hard case, the customer also needed a soft bag solution to reduce weight and cost requirements. Our engineering staff worked with the customer's concept to design a rain-resistant bag with protective foam insert to house the components. Securely.

**Style:** Thermal-formed hard case; injection-molded hard case and sewn bag

**Material:** Polyethylene, polycarbonate and DuPont Cordura nylon