

# BENEFITS OF IMPROVING STEP BOLT DESIGN FOR FIBERGLASS UTILITY POLES

Perfect For Reducing Costs In The Electrical Industry

## THE CHALLENGE

A manufacturer of fiberglass utility poles was using several expensive hardware configurations for installing step bolts.

- ▶ Depending on the type of pole, one of three hardware configurations was used: a large one piece through bolt with a step feature, a two piece mounting system, and an all stainless step system.
- ▶ The multiple-step process of installing the step bolts was a safety concern, as the linemen needed to use two hands to install as they ascended the pole.

## THE SOLUTION

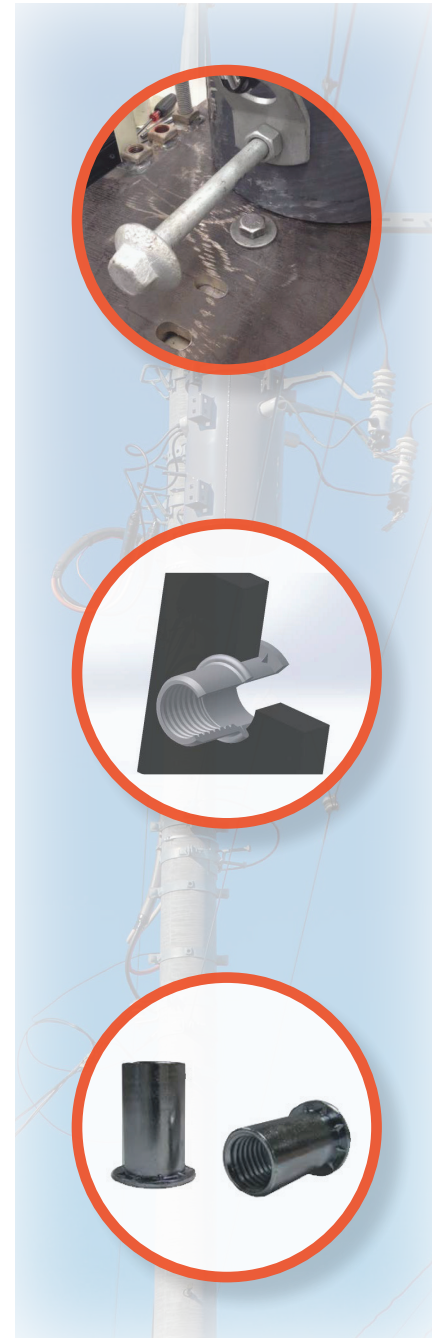
- ▶ Working closely with the customer, the Sherex engineering team designed a large size rivet nut with a special wedge head design.
- ▶ After thorough testing, the new design exceeded all application performance and safety requirements including maximum retention in the fiberglass material and increased spin out resistance.
- ▶ The rivet nut solution eliminated all previous configurations the manufacturer was using.
- ▶ The safety concern was eliminated, as the new rivet nut design allowed the installation of the step bolts to become a one hand operation.

## THE SAVINGS

Annual step bolt production: 5,000

**COST SAVINGS: \$8.00 PER STEP =**

**UP TO \$40,000 IN SAVINGS!**





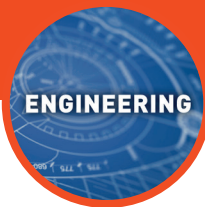
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