

Airport Antenna Gear Box Cover

The Challenge:

Several airports within North America have recently installed new surveillance radar systems to provide Air Traffic Controllers with real time ground traffic data. A problem occurs at extreme cold temperatures where the rotating antenna generates vibrational noise and distracts the Air Traffic Controllers. This noise is generated by an increase of viscosity in the lubricating fluid housed by the gear box.



The Worbo Solution:

Utilizing Worbo's Cool-Skin™ technology a custom fabricated removable insulation cover was developed in conjunction with a conduction heating pad equipped with a thermal couple and controller. The insulation cover was constructed from our low thermal conductivity hybrid closed cell silicone sponge insulating medium encapsulated by a heat reflective Eko-Therm™ liner. The project was a success. No more vibrational noise!!! In fact the highly efficient insulation cover was able to retain nearly all of the internal heat generated inside the gear box so that the conduction heating pad was rarely required.

