



## PROJECT SCOPE

Three Separate Projects  
 10+ Individual Insulation Kits  
 Parts Created Using 3D CAD Modeling  
 Insulation Kits Needed to Account for Moving Parts in Arms' Swivel Componentry

## PROJECT RESULTS

Completed On-Time and Within Budget  
 Liquids No Longer Freeze During Transport  
 Downtime Related to Freeze-Up's Reduced Significantly  
 Insulation is Low Maintenance and Requires No Special Care Under Normal Operations

# DRAGON JACKET INSULATES DYNAMIC LOADING ARM COMPONENTS TO REDUCE DOWN-TIME CAUSED BY FREEZING



Client Name: **Excel Loading Systems**  
 Industry: **Manufacturing**  
 Location: **Cincinnati, Ohio**  
 Project Type: **Loading Arm Insulation**

### PROJECT DETAILS

Excel Loading Systems manufactures loading arms for the safe and efficient transfer of liquids and gasses to trucks, railcars and totes. For clients operating in extreme weather, Excel needed to be able to provide a complete insulation solution for their arms that has an R-value capable of keeping liquids from freezing during transport and loading/offloading. Due to the loading arms' complex design and moving parts, the insulation had to be fully customizable, flexible enough to allow for movement, and durable enough to withstand harsh operational conditions.

Dragon Jacket started with basic insulation components including elbows, bearing covers and straights and customized them using 3D CAD software and client-provided loading arm models for a precise and accurate fit. As the only insulation manufacturer capable of creating insulation for the bearings within the swivel componentry on the loading arm systems, Dragon Jacket delivered a solution unavailable with any other insulation type. It was the first project where Dragon Jacket had to factor moving parts into the overall design, and the result is a worry-free, fully competent insulation solution that keeps liquids from freezing and will last for years without any special handling from the end user.

*"The fit-up went really well. Our customers seem to like the product - I know that we do."  
 - Tom Buddle, Excel Loading Systems*

**100% WATERPROOF & CHEMICAL RESISTANT**  
 Mitigates Corrosion Under Insulation (CUI)

**TOP R-VALUES ON THE MARKET**  
 Wide Temperature Operating Range

**FAST & EASY INSTALLATION**  
 Installs 10x Faster with Standard Tools

**REMOVABLE & REUSABLE**  
 Install, Remove, Inspect, Reinstall, Repeat

**20+ YEAR LIFESPAN**  
 100% Encapsulated, Impact Resistant

   
 FDA Approved for Incidental Food Contact  
 Made in the USA



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