



KWS Heat Traced and Insulated Screw Conveyors Provide Uninterrupted Material Flow

## Heat Tracing and Trough Insulation

### Introduction

To maintain proper flow of temperature-sensitive materials, screw conveyors often require heat tracing and insulation. Whether handling materials with a high moisture content, or other materials prone to solidifying at lower temperatures, KWS heat traced and insulated troughs are engineered to ensure uninterrupted material flow, process efficiency, and long-term equipment performance. Designed for the most demanding industrial applications, our systems are built to deliver reliability in every environment

### Features

**Heat Traced Trough** – Heat tracing is integrated along the outside of the screw conveyor trough to maintain elevated material temperatures. Heat trace systems are designed and sized according to material properties and process requirements.

**Insulated Trough Jacket** – A robust thermal insulation layer is added over the trough and heat tracing and covered with a weatherproof metal jacket to retain heat and protect the system from ambient temperature fluctuations. Insulation thickness and materials are selected based on temperature range and environmental conditions.

**Energy Efficient Design** – Insulation minimizes thermal loss, reducing the energy demand of the heat trace system. The system is engineered to maintain process temperatures with maximum energy efficiency.

### Benefits

**Prevents Material Solidification** – Maintains bulk materials above their freezing or solidification point to ensure continuous and reliable flow. Critical for materials with a high moisture content that are prone to freezing, and other temperature-sensitive products.

**Reduces Downtime** – Eliminates system blockages caused by hardened or frozen material inside the trough. Prevents costly shutdowns, equipment damage, and labor-intensive cleanouts. Insulation and heat tracing protect equipment from freezing during cold weather operations, making the system ideal for outdoor or unheated installations.

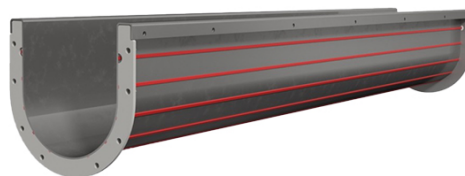
**Custom Engineered Solutions** – KWS heat traced and insulated troughs are tailored to meet specific material characteristics and process requirements. Systems are pre-engineered, tested, and delivered ready for installation.



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Heat Tracing is Mounted to Outside of Trough Surface



Insulation is Added Over Heat Tracing



# Features & Benefits



Metal Jacket Retains Heat and Protects  
Heat Tracing and Insulation



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