

# Products designed for critical applications

# Bulk Material Handling Industry



Hose Master engineers high quality metal hose and expansion joint solutions for a wide variety of dry bulk material handling applications. Whether transferring grain, chemical powders, or plastic pellets, we are application experts in bulk material handling.

We understand the science behind metal hose

We understand the science behind metal hose technology, so our proprietary manufacturing processes yield products with unmatched quality, safety, and value.

Wherever durability, resistance to abrasion, or reduced maintenance costs are important, our products are there to ensure less downtime. Manufacturing and transportation companies trust Hose Master products for their most critical pneumatic conveying applications.

















# Recommendations for using metal hose:

### **Temperature extremes**

If either the substance flowing through the hose or the surrounding atmospheric temperature is very cold or hot, metal may be the only hose material able to withstand the temperature extremes.

#### Chemical compatibility

Metal hose can handle a wider variety of chemicals than most other hose materials. If the hose will be exposed to aggressive chemicals, either internally or externally, metal hose should be used.

#### **Permeation concerns**

When containing the gases inside the hose is important, metal hose is a good choice. While other hose materials may allow gas permeation through the hose wall and into the atmosphere, metal hose, on the other hand, is not susceptible to permeation.

#### Abrasion and over-bending concerns

To prevent damage caused by abrasion or overbending, a metal hose can be used as a protective cover over wires or even other hoses.

#### Potential for catastrophic failure

Non-metal hose types often fail by developing large cracks or suddenly coming apart completely. If a metal hose fails, however, it will typically develop only small holes or cracks. If a sudden hose failure would be catastrophic to your operation, a metal hose may minimize the damage by leaking product at a slower rate.

#### Fire safety

Other hose types can melt when exposed to fire or high temperatures. Metal hose, however, maintains its integrity to 1200° F and beyond.

### Full vacuum applications

Metal hose maintains its shape even under full vacuum – a condition where other hose types may collapse.

## Fitting configuration flexibility

Virtually any type of fitting can be attached to metal hose, without the special shanks and collars needed with other types of hose.



# **Bulk Material Handling applications for Hose Master products:**



#### Corrugated metal hose

Lined assemblies for abrasive products



## Metal expansion joints

Hot air blowers on pneumatic systems Load cell hopper connections Paper scrap recovery systems



#### Stripwound metal hose

Pneumatic plastic pellet transfer systems
Portable grain vacuum systems
Biomass transfer systems
Aggregate transfer in asphalt plants
Powdered cement transfer

Powdered gypsum transfer
Ba
Chemical powder transfer

Gra

ns Catalyst transfer
Material loading and unloading
Hot air blower hoses
Rail car loading and unloading
Dry bulk transloading facilities
Barge loading and unloading
Grain transfer

Pigment transfer
Carbon black transfer
Fly ash conveying
Lime injection systems
Dust collection
Wood chip conveying
Sawdust conveying



