



## Steel Mill Water Cooling Hoses

### Cooling Water: The Lifeblood of Steelmaking

The steel mill is among the most hazardous and rugged environments in industry. Just about every hurdle you can imagine is working against the plant: extremely high heat, molten slag, vibration, corrosive fumes, chemicals, and particulate from ash and dust. To top it all off, the high expectation of plant reliability makes these elements even more critical, because unplanned downtime is so costly it can threaten the livelihood of the mill. All facets of the plant have to be made to address these issues cohesively, no matter how big or small, from the thundering electric arc furnace down to the water cooling hoses.

Fresh cooling water supply is essential for the survival of the mill. Without it, any part of the steelmaking process could be hampered, damaged or shut down due to the extreme temperatures. Because of this, every one of our water cooling hose assemblies is designed to take the heat while combating the most extreme environments in steel mills. Whether it's in the scorching ambient heat above the caster, or burning below the belly of the furnace, Hose Master's metal hoses provide the ultimate combination of performance and reliability.

#### FEATURES:

- Flexible connections provide piping relief from vibration and allow moving parts to receive a steady flow of cooling water while in service (furnace roof, mold oscillator etc.)
- Full size range of domestic-manufactured product from 1/4" to 12" inner diameter
- Fire-safe and will not bake or crack like other hose types
- Short collars and direct-attach end fittings grant maximum live-length for the hose
- Proprietary forming methods result in highly flexible metal hose
- Metal hose construction prevents catastrophic failure (slow pinhole leak vs bursting)
- Accessories available including insulating jacket & stainless armor guard offer additional protection from molten slag and ambient heat

#### BENEFITS:

- **Temperature Resistance.** 100% stainless steel construction in various alloys ensures toughest heat resistance in the industry
- **Reliability.** Our hoses are manufactured and tested to the highest standards in the industry to prevent unplanned maintenance
- **Corrosion Resistance.** Properly designed assemblies are protected from ambient steam that carries chemicals and particulates from cooled components
- **Long Service Life.** Proprietary manufacturing methods and high quality engineering allow us to fabricate hose assemblies that stand the test of time

### Hose Master is a Service and Engineering Company

As the leading North American manufacturer of metal hose and expansion joints, Hose Master has grown through product innovation to define the industry standard. We do this by designing and building our own equipment to meet the most stringent requirements in an ever more demanding marketplace.

Our engineering expertise stems from a combination of long-standing industry field experience and 10% of our total workforce being devoted to research and development. But our primary driver to change and improve our organization has always been service to our customers.

By expanding our national presence to include three additional manufacturing satellites to support our extensive outside sales force, and increasing our fabricating footprint by employing and training our 100+ ASME IX welders, we are able to provide premium fabricating and sales service across the country.



*Selecting the proper hose and assembly components is crucial. You must ensure each assembly is designed specifically for your intended purpose and operating conditions. Please consult our website or Inside Sales for assistance.*