

PENFLEX

WATER COOLING HOSES FOR STEEL MILLS

As ubiquitous as steel is in our everyday lives, so too is water in the steelmaking process. It's the rate at which steel cools that will impact physical properties of the finished product—and it is water that's used to cool steel in hot rolling, casting and quenching processes.

Water is also used to cool furnaces and other pieces of machinery within the mill and, beyond cooling, it is used to descale, wash, and condition.

When it comes to moving water throughout a steel mill, there are two things to think about when selecting hoses: temperature and flexibility.

WATER COOLING HOSE DESIGN AND PRODUCT SUPPORT

Penflex water hoses for steel mills are designed with high temperatures and the need for flexibility in mind.

The 300 Series austenitic stainless steels can handle the heat in mills and, given their ability to retain their physical properties without catching fire at high temperatures, are the ideal alloy for many water applications in steel mills. Penflex also offers a range of high-nickel alloys for extremely high temperature applications as well as superior resistance to corrosion.

Penflex's P3 Series hose—available in both standard and compressed pitch for increased flexibility—is a lightweight hose requiring little force to bend, making it a preferred option in many configurations and spaces. It's often used for water cooling lines.

In addition to engineering and design support, Penflex offers customers resources to support proper installation and maintenance for longer life in service.

At a glance

Penflex offers the widest range of metal hose and braid products in the industry

Nominal I.D. ranges from ¼" to 24"

Custom-pitch options for required flexibility

On-call engineering support for hose products and assembly quoting

ASME IX certified welders and on-site Certified Welding Instructor and Non-Destructive Examiner ensures highest quality fabrication

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Penflex hoses are sold through a worldwide distribution network