

# GSM

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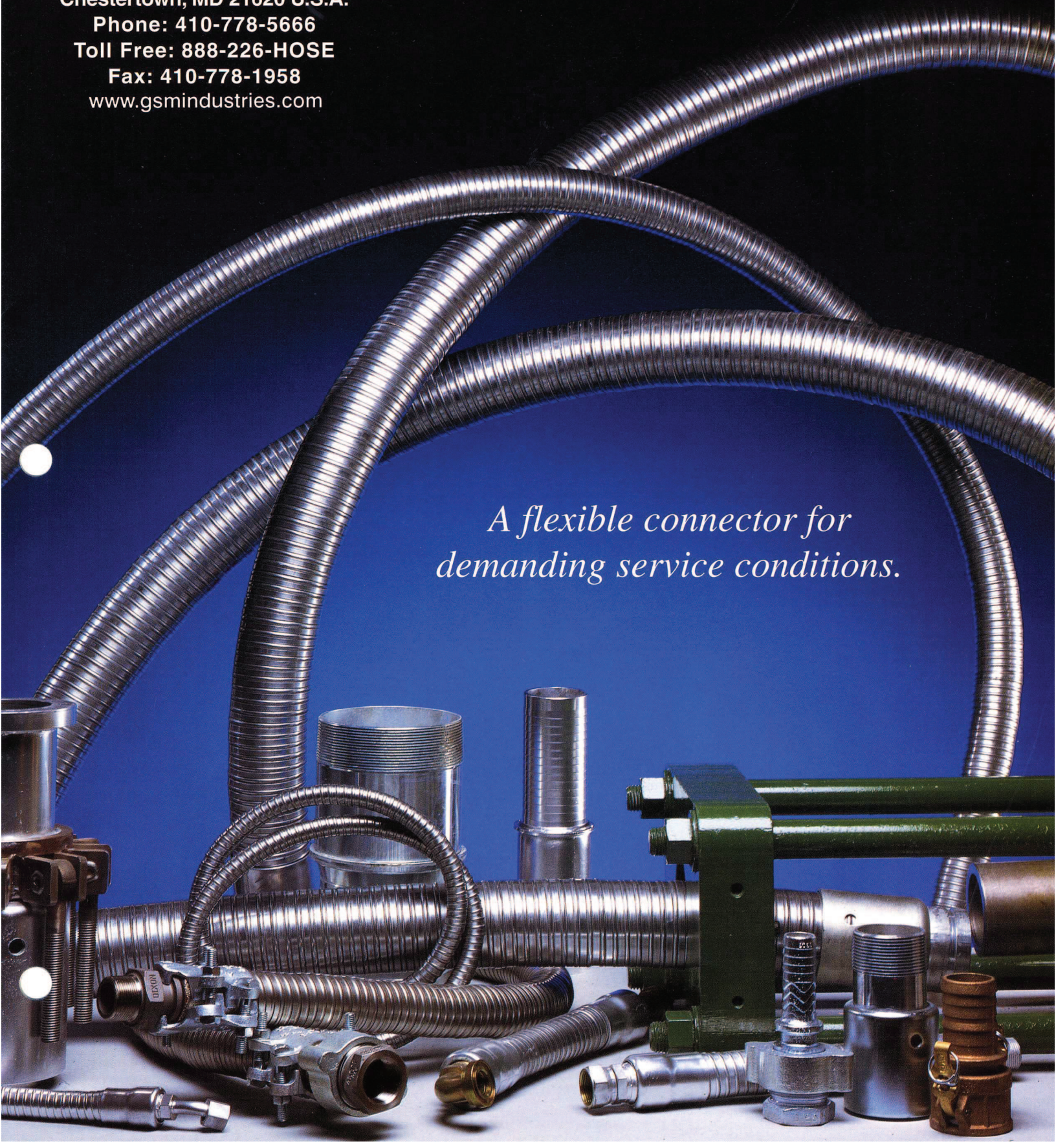
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[www.gsmindustries.com](http://www.gsmindustries.com)

## BALL-JOINT ARMORED HOSE

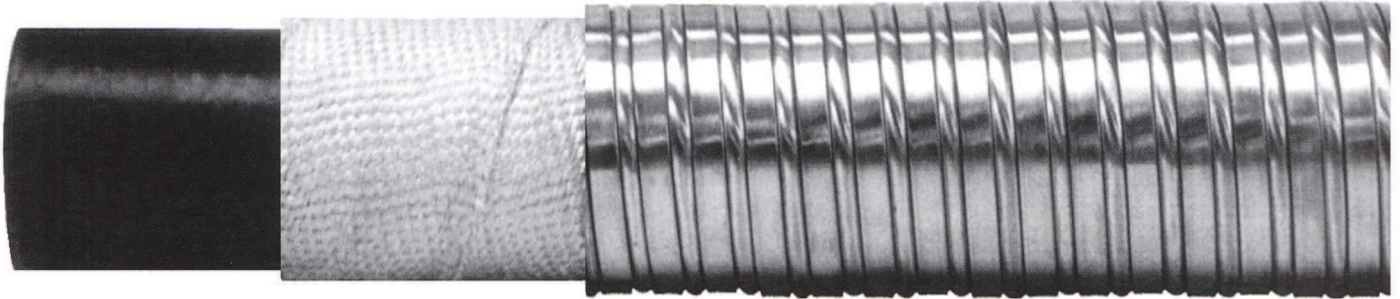
*A flexible connector for  
demanding service conditions.*





# GSM ARMORED HOSE FOR

GSM Ball-Joint Armored Hose is designed to handle the most critical services in the hose industry. A combination of insulation and GSM's unique Ball-Joint Armor will protect hose from extreme heat, abrasion, molten splash and kinking. No other hose can match the quality and durability of GSM hose.



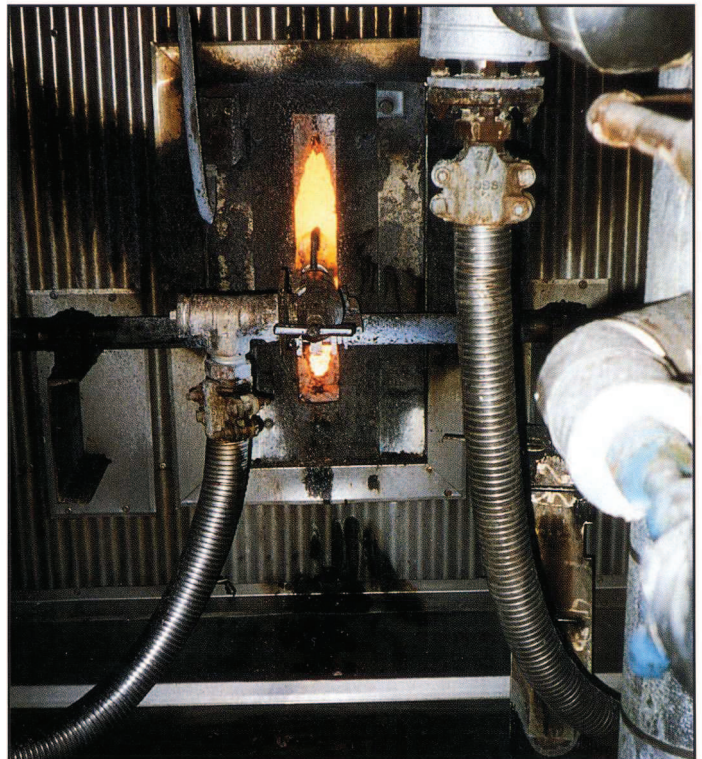
Inner hose supplied is designed for material conveyed (hose can be rubber, teflon or metal).



Various layers of fiberglass insulation can be applied to resist extreme heat.



GSM Ball-Joint Armor protects against extreme heat, abrasion and kinking. Available in Stainless Steel or Galvanized Steel.



GSM Steam and Black Liquor Hose used in the Pulp and Paper industry.

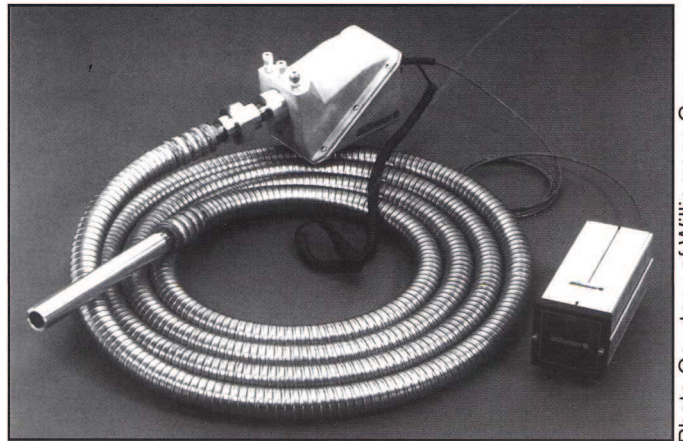


# INDUSTRIAL APPLICATIONS



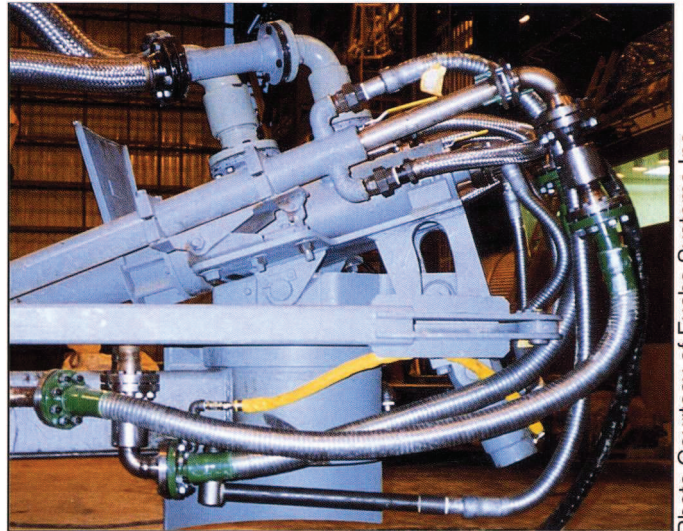
GSM Armored Hydraulic Hose used on a Scrap Grapple.

Photo Courtesy of La Bounty Mfg.



GSM Armored Hose used to protect Fiber-optic cables.

Photo Courtesy of Williamson Corp.



GSM Water, Oxygen and Gas Hoses handling critical Steel Mill applications.

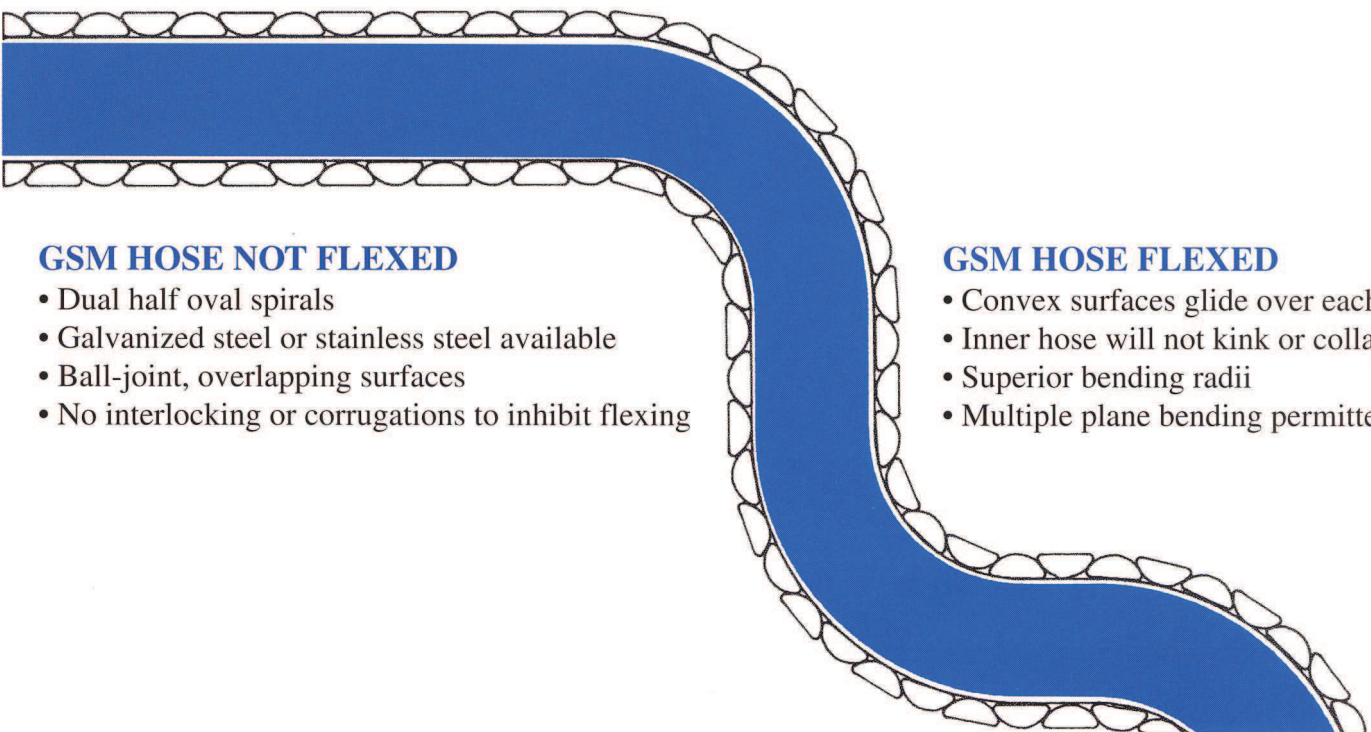
Photo Courtesy of Fuchs Systems Inc.

## GSM HOSE NOT FLEXED

- Dual half oval spirals
- Galvanized steel or stainless steel available
- Ball-joint, overlapping surfaces
- No interlocking or corrugations to inhibit flexing

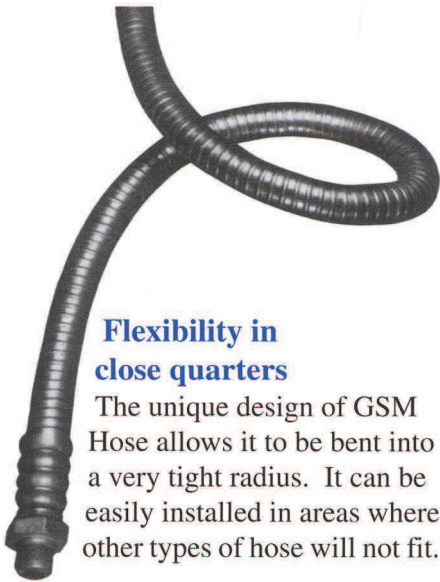
## GSM HOSE FLEXED

- Convex surfaces glide over each other
- Inner hose will not kink or collapse
- Superior bending radii
- Multiple plane bending permitted





# Construction Features In Action



## Flexibility in close quarters

The unique design of GSM Hose allows it to be bent into a very tight radius. It can be easily installed in areas where other types of hose will not fit.

## Almost indestructible

The combination of the strength of the metal with the resiliency of the ball-joint design results in a hose that is forgiving in the most rugged industrial environment.

## Takes continuous flexing in stride

The exclusive ball-joint armor construction of GSM Hose provides built-in resistance to damage from distortion caused by continuous flexing and bending. In comparison, all-metal hose tends to fatigue when flexed over a period of time.

## Superior resistance to direct flame and high temperatures

In actual service, GSM Hose has proven its ability to withstand extreme heat. The use of multiple layers of special insulating material reduces the possibility of heat damage.

## Resists kinking

Because of its unique ball-joint design, GSM Hose maintains perfect I.D. and O.D. dimensions when subjected to severe bending. In applications where flow of material is critical, this feature provides extra assurance that the payload will be delivered and at a consistent flow rate.

## Soaks up vibration and hammer effect

The extreme flexibility of GSM Hose makes it an ideal link in a piping system that is exposed to vibration. Inserting it at appropriate sections in the line (both sides of the pump, elbows and tight bends) is an innovative and economical method to dissipate vibration and relieve water hammer.

## Standard and custom couplings

We supply all our GSM Hose with couplings. Depending upon the conditions of the application, one of our standard couplings may be suitable. For unusual connecting circumstances, our engineering staff will custom design couplings which we will then produce to handle these service needs. Installation of couplings by our own factory methods is extra prevention against the possibility of a coupling separating from the hose.

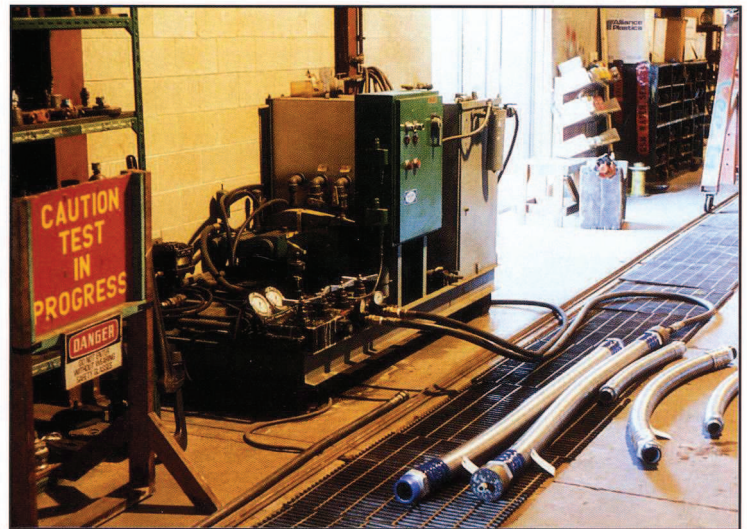
## Testing

Hydrostatic testing of coupled lengths is available. We can test large diameter hose to 10,000 PSI and smaller hoses and hydraulic assemblies to 30,000 PSI.

*To discuss your particular requirements and how GSM Hose might solve a connection problem, call us. We would very much like to help with a GSM product designed for you.*



GSM BOP Hose tested at 2000°F, 2,000,000 BTU's, at 5000 PSI Working Pressure.



GSM is capable of hydrostatically testing various hose I.D.'s at various pressures.



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