



# FIRE PROTECTION PIPING

## EFFICIENT MANUFACTURING

Automated fire sprinkler pipe fabrication for **higher** throughput, **safer** operations and **predictable** output

We are also recognized for our automation expertise across other steel fabrication sectors



### CONSTRUCTION & BUILDING ELEMENTS

Advanced automation applied to the development of facilities for the industrial manufacturing of construction and building elements



### INDUSTRIAL WAREHOUSE STRUCTURES

Automated fabrication solutions for large-scale steel structures used in industrial storage and logistics systems



### SCAFFOLDING STRUCTURES

Automated manufacturing solutions for scaffolding structures, designed to meet the highest safety and quality standards



### OTHER METAL STRUCTURES

Automated manufacturing solutions tailored to custom metal structures and specific project requirements



# EFFICIENT MANUFACTURING

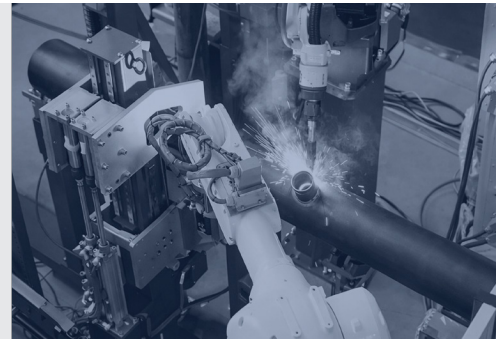
## SUPPORTING LARGE-SCALE INDUSTRIAL FABRICATION SINCE 1987

Fire sprinkler pipe fabrication has traditionally relied on **skilled labor**, manual operations and **repetitive welding** processes. Today, manufacturers face increasing demand, shorter lead times and a growing shortage of skilled welders, while maintaining strict quality and safety requirements.

Inser Robótica develops automated fabrication solutions that help fire protection pipe manufacturers **increase throughput, reduce rework** and achieve **consistent, predictable production** output.

Our solutions are designed for fire sprinkler fabrication shops, supporting different pipe diameters, branch configurations and production volumes, and enabling **scalable automation** adapted to real shop-floor conditions.

Turn your factory  
into a **Smart Factory**



We automate pipe **feeding**, length **measurement**, pipe **splicing**, roll **grooving**, branch hole **cutting**, coupling **positioning** and robotic **branch welding** for fire sprinkler fabrication shops, supporting different **pipe diameters**, branch configurations and production volumes.



INTUITIVE

A close-up photograph of a pipe fitting or coupling, showing the circular opening and the surrounding metal structure.

EASY TO OPERATE

A 3D CAD model of a pipe fitting, showing the internal and external dimensions and the connection points. The model is rendered in a dark blue color with a grid overlay.

ACCURATE

A close-up photograph of a pipe fitting, showing the circular opening and the surrounding metal structure. The image is slightly blurred, emphasizing the precision of the manufacturing process.

## KEY FEATURES



- **SAFETY-ORIENTED AUTOMATION**

Reduced exposure to manual welding and heavy pipe handling.

- **PRODUCTIVITY BY DESIGN**

Stable cycle times and predictable daily output.

- **FABRICATION FLEXIBILITY**

Supports multiple pipe sizes, layouts and branch configurations.

- **SCALABLE AUTOMATION LEVELS**

From stand-alone cells to more advanced fabrication solutions.

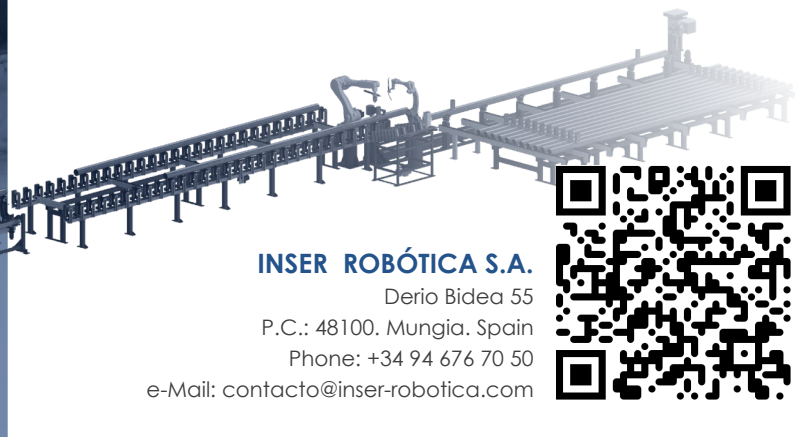
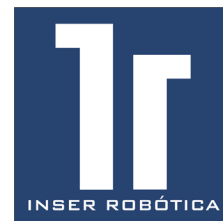
## WELD PATH GENERATOR

Designed and developed in-house, our **production platform** coordinates pipe feeding, measurement, splicing, grooving, branching and welding operations for fire sprinkler pipe fabrication, enabling operators to **manage** references and **adapt** the system to new fabrication requirements **with ease**.



## A LONG-TERM AUTOMATION PARTNER

Since **1987**, we have supported automation projects **worldwide**, from engineering and commissioning to **long-term operational support**



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