

RIVO MULTITRADE OPTICAL SYSTEMS

Pipeline tray supports



Overview

TUBETRACK® TUBETRACK® was invented in 1954 by Jim White, founder of James C. White Company, and is the most secure and continuous Tubing Supports | McMaster.

Key Takeaways

Pipeline tray supports are structural systems designed to securely hold and organize pipelines, ensuring stability, accessibility, and safety in industrial and utility installations. Overview

Pipeline tray supports are essential for maintaining the integrity and functionality of piping systems. They provide mechanical support, prevent sagging, reduce stress on joints, and allow for safe maintenance access. Supports are selected based on pipe diameter, weight, material, operating temperature, and environmental conditions .

Types of Pipeline Supports

- Pipe Racks
- Structural steel frameworks that carry multiple pipes, power cables, and instrumentation trays.
- Designed with transverse beams and longitudinal struts to optimize load distribution and maintenance access.
- Pipes are arranged by function: utility pipes (steam, water, fuel) are typically on top, while process pipes are positioned on lower levels .



- Pipe Sleepers (Pipe Tracks)
- Horizontal supports, often made of steel, concrete, or composite materials, providing a stable platform for pipelines.
- Raise pipelines slightly above ground for inspection, maintenance, and protection from external damage.
- Spacing and design depend on pipe diameter, weight, soil conditions, and future expansion needs .
- Modular Profiles and Supports
- Versatile systems for suspended, wall-mounted, or rail-mounted pipelines.
- Materials include galvanized steel, stainless steel, PVC, or plastic-coated finishes for corrosion resistance and load-bearing capacity.
- Compatible with pipe clamps and brackets to form stable, modular assemblies suitable for light, medium, or heavy loads .

Design Considerations

- Stress Analysis: Ensures supports can handle pipe weight, thermal expansion, and dynamic loads.
- Support Spacing: Determined by pipe size, material, and operating conditions.
- Horizontal Restraint: Prevents lateral movement and vibration.
- Environmental Factors: Corrosion, UV exposure, temperature fluctuations, and seismic activity must be considered .

Materials

- Steel: High strength, suitable for heavy-duty industrial pipelines.
- Concrete: Cost-effective, corrosion-resistant, often used for sleepers.
- Composite or Plastic-Coated Systems: Lightweight, corrosion-resistant, ideal for chemical or outdoor environments .

Applications

Pipeline tray supports are widely used in petrochemical plants, chemical processing facilities, power plants, and water treatment systems. They ensure safe, organized, and maintainable piping networks, accommodating both current and future expansions . By selecting the appropriate support type, material, and configuration, engineers can maximize pipeline longevity, safety, and operational efficiency.

Article Content

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