Fiber optic cable tracking pig

Overview

A new pipeline system, MASiP, uses embedded fiber-optic technology to deliver real-time monitoring of pressure, stress, strain, and vibration. The innovation enables smarter pig tracking, reduces stuck pig risks, and could significantly cut costs and downtime for pipeline. This solution utilizes Distributed Acoustic Sensing (DAS) technology to intelligently monitor the entire pigging process by collecting and analyzing real-time audio and vibration data along the pipeline. Distributed. To monitor the motion position of pig detector in a long-distance oil and gas pipeline in real time and detect the stuck pig incident in time, an intelligent positioning and tracking technology of pipeline pig detector was proposed. The redundant optical fibers in the communication optical cable. SLB's pipeline integrity monitoring systems—part of the Optiq™ fiber-optic solutions family—enable pipeline operators to perform accurate leak detection and pig tracking while protecting pipelines from third-party intrusions and detecting ground movements, such as earthquakes and subsidence. These systems are typically intended to provide leak detection and third party interference surveillance for long lengths of pipeline. Between 2006 and 2008 BP and OneSubsea™ developed the optical. The monitoring system interface has been upgraded to integrate this additional functionality. Copyright © 2014 by ASME.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Article Content

Pig Tracking in Real-Time | LandsubGlobal

Combining artificial intelligence recognition algorithms, the system achieves precise tracking of pig position, speed, and operational status throughout its journey.

Pipeline Monitoring | Fiber Optic Leak Detection | AP Sensing

By utilizing a fiber optical cable as a sensor, this technology ensures early detection and accurate localization of events like pipeline leaks or external threats.

Intelligent Positioning and Tracking of Pipeline Pig Detector Based on ...

To monitor the motion position of pig detector in a long‐distance oil and gas pipeline in real time and detect the stuck pig incident in time, an intelligent positioning and tracking technology of pipeline

Pipeline Integrity Monitoring and Leak Detection | SLB

By using our fiber-optic pipeline monitoring technology, you can determine the velocity of pigs. As a result, you can calculate pig arrival times and inform maintenance crews as well as ensure that pig

Real-Time Pig Tracking Using a Fibre Optic Pipeline Monitoring System

The paper describes the capabilities of the fibre optic monitoring system and through a case study illustrates the accuracy and operational benefits of the pig tracking capability.

Real-Time Pig Tracking Using a Fibre Optic Pipeline Monitoring System

The fiber optic pipeline monitoring system can accurately track the movement of pipeline pigs, providing additional leak detection and third party surveillance capabilities for onshore pipelines.

Fiber-Optic Pipe Could Make Stuck Pigs a Thing of the Past

A new pipeline system, MASiP, uses embedded fiber-optic technology to deliver real-time monitoring of pressure, stress, strain, and vibration. The innovation enables smarter pig tracking,

Real-Time Pig Tracking Using a Fibre Optic Pipeline ...

The paper describes the capabilities of the fibre optic monitoring system and through a case study illustrates the accuracy and operational benefits of the pig tracking capability.

Pig Tracking: Technologies, Applications and Best

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

In many cases, tracking is simply used to verify that a pig has reached the expected location, such as the receiver. In other situations, it may be needed

Real-time pipeline surveillance solution | FEBUS Optics

FOPipe, the distributed fiber optic sensing solution for pipeline monitoring, enables real-time detection of any leaks or infiltrations in the sewage pipeline network.

Pipeline Integrity Monitoring and Leak Detection | SLB

Pipeline integrity monitoring systems SLB''s pipeline integrity monitoring systems—part of the Optiq™ fiber-optic solutions family—enable pipeline operators to perform accurate leak detection and pig

Fiber Optic Cables & MPO Solutions | DYS Fiber Optic

17-year fiber optic manufacturer producing indoor/outdoor cables, MPO/MTP assemblies, FTTH/FTTA components, and PLC splitters. Custom OEM/ODM. Request quote.

Best 5 Network Cable Trackers of 2025 With Clear Instructions

For professionals primarily working with fiber optic installations, the QIIRUN Network Cable Tracker offers consolidated functionality. However, network technicians focused on copper infrastructure

Suppliers of Yemen Vertical Shaft Smart Building Fiber Optic Cable ...

Yemen Vertical Shaft Smart Building Fiber Optic Cable Factory - Free to use unique search engine of reliable, genuine and verified companies, suppliers, exporters, sellers, manufacturers, factories,

SFP+ Cables

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables, CX4 Cables and Fiber Optic Transceivers.

9 Best Fiber Optic Modem Router Combo | Fiber Optic Mesh & WiFi 7

This guide breaks down the top models for the best fiber optic modem router combo, covering everything from multi-gig LAN ports to mesh coverage and security features.

The FOA Reference For Fiber Optics

Fiber Optic Testing Testing is used to evaluate the performance of fiber optic components, cable plants and systems. As the components like fiber,

Submarine Cable FAQs

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Submarine Cable 101 How many cables are there? As of 2026, we track more than 600 active and planned submarine cables. The total number of active cables is

Contact Us

Continue your research online:

Website: https://cjcconsultants.co.za
Technical inquiry: https://cjcconsultants.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved