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North America Robotic Crawler Camera Market Forecast to 2030 - Regional Analysis - by Component [Hardware (Cameras, Crawlers, Cable Drums, Control Units, and Others), Software, and Service], Application (Drain Inspection, Pipeline Inspection, and Tank Void Capacity or Conduit Inspection), and End User (Residential, Commercial, Municipal, and Industrial)

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Abstracts

The North America robotic crawler camera market was valued at US$ 91.25 million in 2022 and is expected to reach US$ 229.23 million by 2030; it is estimated to record a CAGR of 12.2% from 2022 to 2030.

Increasing Government Laws and Obligations for Pipeline Assessment Fuel North America Robotic Crawler Camera Market

The demand for pipeline inspection technology, such as crawler camera systems, is being driven by governmental regulations for pipeline assessment. These laws are envisioned to ensure pipeline infrastructure's integrity, safety, and environmental compliance. To prevent spills, leaks, and accidents that could negatively impact the environment and the security of the overall population, governments across the globe are implementing stringent safety standards and regulations for pipeline operators. For instance, the US Department of Transportation's Pipelines and Hazardous Materials Safety Administration (PHMSA) issued pipeline safety regulations that address construction, operation, and maintenance, requirements for pipeline operators, and enforce pipeline safety laws and regulations. Pipeline inspections are regularly required under these laws to detect and resolve possible problems before they change into emergencies. With their capability to undertake thorough visual inspections of pipelines,

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crawler camera systems have been established as critical tools for pipeline assessment.

The requirement for advanced inspection tools that deliver real-time information is increasing among government organizations. Several government bodies currently mandate collecting and inspecting data on pipeline conditions. Crawler camera systems with advanced sensors, such as ultrasonic thickness gauges and laser profiling, can provide accurate information on the thickness of pipes, the extent of corrosion, and the structural reliability of an object. This data improves the overall efficacy of pipeline valuations and is critical for long-term planning and regulatory compliance. Regulatory establishments are becoming more conscious of how important it is to adopt new advanced technologies to improve inspection accuracy and efficiency. The speed, flexibility, and accuracy of inspections are enhanced by crawler camera systems' real-time video streaming and robotic maneuverability. Governments in some regions appeal to pipeline operators to invest in upgrading their inspection operations by providing tax rebates, grants, or other monetary incentives. As businesses try to take benefit of these incentives to upgrade their inspection equipment, this drives market development even more. Thus, the growing government laws and obligations for pipeline assessment are boosting the growth of the robotic crawler camera system market.

North America Robotic Crawler Camera Market Overview

The water system in North America is an extensive, complex series of networks with the mission of providing reliable, safe, and cheap drinking water to hundreds of millions of people. The region's water system is also tasked with managing wastewater and contributing to flood control, hydropower. According to government agencies and independent experts, most of the region's water infrastructure, which was built more than 50 years ago, is reaching the end of its lifespan and requires enormous new investment. The Environmental Protection Agency (EPA) estimated that the US will need to spend more than US$ 744 billion on water infrastructure by 2040, including treatment plants, pipes, and wastewater management facilities. According to the latest Report Card of America's Infrastructure developed by the American Society of Civil Engineers, there are ~240,000 water main breaks per year in the US. Industry sources indicate that up to ten billion gallons of raw sewage are leaked into waterways or watersheds every year. The capital investment needed for the nation's wastewater and stormwater systems is estimated at US$ 298 billion over the next twenty years, while US$ 335 billion is needed for drinking water infrastructure over the same timeframe. The robotic crawler cameras are widely used to navigate over obstacles and through difficult pipe interiors, mostly used for water, sewer, and wastewater pipes. Therefore,

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with the increasing investments in wastewater infrastructure in North America, the demand for robotic crawler cameras is increasing.

North America Robotic Crawler Camera Market Revenue and Forecast to 2030 (US$ Million)

North America Robotic Crawler Camera Market Segmentation

The North America robotic crawler camera market is segmented based on component, application, end user, and country. Based on component, the North America robotic crawler camera market is categorized into hardware, software, and services. The hardware segment held the largest market share in 2022.

By application, the North America robotic crawler camera market is segmented into drain inspection, pipeline inspection, and tank void capacity or conduit inspection. The pipeline inspection segment held the largest market share in 2022.

In terms of end user, the North America robotic crawler camera market is categorized into residential, commercial, municipal, and industrial. The industrial segment held the largest market share in 2022.

Based on country, the North America robotic crawler camera market is segmented into the US, Canada, and Mexico. The US dominated the North America robotic crawler camera market share in 2022.

The Charles Machine Works Inc, Rausch GmbH, Mini-Cam Ltd, CUES Inc, Deep Trekker Inc, Eddyfi Technologies, and iPEK International GmbH are some of the leading players operating in the North America robotic crawler camera market.

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