Asia Pacific Trenchless Pipe Relining Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Method (Cured in Place Pipe, Pull-in-Place, Pipe Bursting, and Internal Pipe Coating), End-user (Municipal, Industrial, Commercial, and Residential), Diameter (Below DN 50, DN 51 - DN 150, DN 151 - DN 250, and Above DN 251), and Curing Method (Ambient Cure, Hot Water Cure, Steam Cure, and UV Light Cure)

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Abstracts

The Asia Pacific Trenchless Pipe Relining Market is projected to grow significantly, reaching an estimated US$ 1,382.9 million by 2031, up from US$ 818.0 million in 2024, with a compound annual growth rate (CAGR) of 7.9% anticipated from 2025 to 2031. This growth is driven by the aging pipeline infrastructure across the region, with many systems exceeding 40 years in service and in need of rehabilitation to maintain functionality.

The market encompasses several key countries, including China, India, Japan, Australia, South Korea, and others in the Asia Pacific region. Notably, China has a vast network of approximately 11,000 wastewater treatment plants, with plans to establish an additional 40,000 facilities in 2024. In Hong Kong, over 5,400 kilometers of underground stormwater drains and sewers, some over 35 years old, are in urgent need of repair due to deterioration from corrosive sewage gases. To address these challenges, the Drainage Services Department (DSD) in Hong Kong regularly rehabilitates high-risk underground pipes using various repair methods. Additionally, governments in the region, particularly in China and Australia, are increasing investments to tackle frequent leaks and breaks in water pipelines. For instance, China is undertaking a significant

renovation project aimed at upgrading 80,000 kilometers of sewage collection pipelines, which is expected to drive demand for trenchless solutions.

The Asia Pacific Trenchless Pipe Relining Market is segmented by various factors, including method, end-user, diameter, and curing method. By method, the market is divided into Cured in Place Pipe (CIPP), Pull-in-Place, Pipe Bursting, and Internal Pipe Coating, with CIPP being the dominant method in 2024. In terms of end-users, the municipal segment leads the market, while the diameter segmentation shows that pipes below DN 50 are the most prevalent. The curing method segmentation indicates that Hot Water Cure is the leading technique in 2024.

Trenchless pipe relining technology presents numerous advantages over traditional pipe replacement methods. It significantly reduces excavation and labor costs, minimizes disruption to surrounding properties and landscapes, and provides long-lasting solutions. Traditional methods often require extensive labor and heavy machinery, which can escalate costs. In contrast, trenchless methods can be executed with smaller crews and less equipment, leading to lower labor and excavation costs. The cost of trenchless pipe bursting ranges from US$ 60 to US$ 200 per foot, while trenchless pipelining typically costs between US$ 80 and US$ 250 per foot, averaging around US$ 160 per foot. Homeowners can expect to pay between US$ 6,000 and US$ 12,000 for critical sewer connection repairs, depending on the specific circumstances.

The long-term benefits of trenchless pipe relining are also noteworthy. The new liner provides robust protection against future leaks and damage, acting as a seamless inner layer to the existing pipe, which reduces the need for future repairs and replacements, ultimately saving costs. These cost advantages are expected to create significant growth opportunities for the trenchless pipe relining market in the coming years.

Country-wise, China is the largest market for trenchless pipe relining in the Asia Pacific region. The country's extensive infrastructure initiatives are a major driver of market growth, particularly the ambitious renovation project aimed at upgrading 80,000 kilometers of sewage pipelines. This initiative is generating substantial demand for advanced and efficient pipe rehabilitation solutions, making trenchless relining technologies highly sought after. The modernization of aging urban infrastructure is accelerating the adoption of trenchless methods, including CIPP, UV CIPP, and other innovative lining techniques, which are favored for their minimal excavation requirements and reduced labor costs.

Moreover, significant industry events, such as the Second China Municipal Water Supply and Drainage Pipeline Trenchless Rehabilitation Technology Promotion Conference in 2024, have facilitated collaboration among experts, companies, and government officials. These gatherings promote knowledge exchange, showcase innovations, and establish technical standards, fostering rapid technological advancement in the sector. The economic benefits of trenchless relining—lower labor costs, minimal restoration needs, and long-term durability—align with China's objectives to upgrade infrastructure efficiently while managing public expenditure. This trend is encouraging similar investments in other Asia Pacific markets.

Key players in the Asia Pacific Trenchless Pipe Relining Market include The Charles Machine Works Inc, Trelleborg AB, RelineEurope GmbH, and several others. These companies are actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to consumers.

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Contents

6. TRENCHLESS PIPE RELINING MARKET - ASIA PACIFIC MARKET ANALYSIS

7. ASIA PACIFIC TRENCHLESS PIPE RELINING MARKET REVENUE ANALYSIS - BY METHOD

8. ASIA PACIFIC TRENCHLESS PIPE RELINING MARKET REVENUE ANALYSIS - BY END-USER

9. ASIA PACIFIC TRENCHLESS PIPE RELINING MARKET REVENUE ANALYSIS - BY DIAMETER

10. ASIA PACIFIC TRENCHLESS PIPE RELINING MARKET REVENUE ANALYSIS - BY CURING METHOD

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11. ASIA PACIFIC TRENCHLESS PIPE RELINING MARKET - COUNTRY ANALYSIS

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12 COMPETITIVE LANDSCAPE

13 INDUSTRY LANDSCAPE

14 COMPANY PROFILES

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15. APPENDIX

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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