

# Global Pipeline Inspection Robots Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Pipeline Inspection Robots market size is expected to reach \$ 2816 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

A Pipeline Inspection Robot is a specialized intelligent non-destructive testing robotic system integrating robotics, sensor detection, IoT, real-time data transmission and autonomous navigation technologies, engineered for the automatic inspection of various municipal and industrial pipelines?including oil and gas, water supply and drainage, chemical and sewage pipelines of different diameters, materials and laying forms (underground, overhead, submerged)?that are narrow, high-risk or inaccessible to manual workers. It features flexible movement modes (wheeled, tracked, crawler, floating) to adapt to straight pipes, bends, tees and variable-diameter sections, and is equipped with core detection components such as high-definition industrial cameras, ultrasonic flaw detectors, magnetic flux leakage sensors and positioning modules. In 2025, global Pipeline Inspection Robots production reached approximately 56,657 units, with an average global market price of around K US\$ 35 per unit.

The supply chain of Pipeline Inspection Robots features a clear vertical collaboration system with multi-party synergy: upstream links cover suppliers of core precision components and materials, including manufacturers of high-precision detection sensors (ultrasonic, magnetic flux leakage, high-definition industrial camera modules), intelligent control parts (industrial chips, autonomous navigation and IoT transmission modules), special structural materials (waterproof, explosion-proof and pressure-resistant alloys/engineering plastics), flexible walking mechanisms (wheeled, tracked, crawler components) and supporting accessories (high-durability batteries, industrial cables), as well as R&D service providers of AI defect recognition and autonomous navigation algorithms; the midstream is the R&D, integration, production and commissioning enterprises of Pipeline Inspection Robots, which customize product configurations

(explosion-proof, underwater, small-diameter adaptation) according to downstream industry scenario requirements, integrate upstream hardware and software resources, and provide technical debugging and after-sales training services; downstream covers pipeline operation enterprises, professional inspection institutions and government municipal management departments in the oil and gas, chemical, municipal water supply and drainage, electric power and municipal engineering industries.

The cost structure of Pipeline Inspection Robots is dominated by high-precision hardware costs, with core detection sensors and intelligent control components accounting for the largest proportion, as the high R&D threshold, precision manufacturing requirements and industrial-grade performance standards of ultrasonic flaw detectors, magnetic flux leakage sensors, industrial chips and real-time IoT transmission modules push up their procurement costs significantly; followed by special customized body and walking mechanism costs, including the production costs of explosion-proof/waterproof/pressure-resistant special structural materials and scenario-adaptive walking components (tracked, crawler, floating), with customized design for special working conditions such as large-diameter oil and gas pipelines and underwater sewage pipelines further increasing this part of the cost.

This report studies the global Pipeline Inspection Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pipeline Inspection Robots and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pipeline Inspection Robots that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Pipeline Inspection Robots total production and demand, 2021-2032, (Units)

Global Pipeline Inspection Robots total production value, 2021-2032, (USD Million)

Global Pipeline Inspection Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pipeline Inspection Robots consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pipeline Inspection Robots domestic production, consumption, key domestic manufacturers and share

Global Pipeline Inspection Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pipeline Inspection Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pipeline Inspection Robots production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pipeline Inspection Robots market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Waygate Technologies, CUES, iPEK, IBAK Helmut Hunger, Mini-Cam Ltd, RedZone Robotics, EnviroSight, Eddyfi Technologies, HiBot, Wuhan Easy-Sight Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pipeline Inspection Robots market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pipeline Inspection Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pipeline Inspection Robots Market, Segmentation by Type:

Wheel Type

Crawler Type

Orbital Type

Others

Global Pipeline Inspection Robots Market, Segmentation by Core Detection Function:

Visual Inspection Type

Non-destructive Testing Type

Comprehensive Detection Type

Global Pipeline Inspection Robots Market, Segmentation by Autonomous Navigation Grade:

Manual Remote Control Grade

Semi-autonomous Grade

Fully Autonomous Grade

Global Pipeline Inspection Robots Market, Segmentation by Application:

Water Supply

Oil Pipeline

Gas Pipeline

Sewage Pipe

Others

**Companies Profiled:**

Waygate Technologies

CUES

iPEK

IBAK Helmut Hunger

Mini-Cam Ltd

RedZone Robotics

Envirosight

Eddyfi Technologies

HiBot

Wuhan Easy-Sight Technology

Wuhan Trio-Vision Electronic Technology

SuperDroid Robots

Shenzhen SROD Industrial

Inspector Systems

ULC Technologies, LLC

**Key Questions Answered:**

1. How big is the global Pipeline Inspection Robots market?
2. What is the demand of the global Pipeline Inspection Robots market?
3. What is the year over year growth of the global Pipeline Inspection Robots market?
4. What is the production and production value of the global Pipeline Inspection Robots market?

5. Who are the key producers in the global Pipeline Inspection Robots market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Pipeline Inspection Robots Introduction
- 1.2 World Pipeline Inspection Robots Supply & Forecast
  - 1.2.1 World Pipeline Inspection Robots Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Pipeline Inspection Robots Production (2021-2032)
  - 1.2.3 World Pipeline Inspection Robots Pricing Trends (2021-2032)
- 1.3 World Pipeline Inspection Robots Production by Region (Based on Production Site)
  - 1.3.1 World Pipeline Inspection Robots Production Value by Region (2021-2032)
  - 1.3.2 World Pipeline Inspection Robots Production by Region (2021-2032)
  - 1.3.3 World Pipeline Inspection Robots Average Price by Region (2021-2032)
  - 1.3.4 North America Pipeline Inspection Robots Production (2021-2032)
  - 1.3.5 Europe Pipeline Inspection Robots Production (2021-2032)
  - 1.3.6 China Pipeline Inspection Robots Production (2021-2032)
  - 1.3.7 Japan Pipeline Inspection Robots Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Pipeline Inspection Robots Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Pipeline Inspection Robots Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Pipeline Inspection Robots Demand (2021-2032)
- 2.2 World Pipeline Inspection Robots Consumption by Region
  - 2.2.1 World Pipeline Inspection Robots Consumption by Region (2021-2026)
  - 2.2.2 World Pipeline Inspection Robots Consumption Forecast by Region (2027-2032)
- 2.3 United States Pipeline Inspection Robots Consumption (2021-2032)
- 2.4 China Pipeline Inspection Robots Consumption (2021-2032)
- 2.5 Europe Pipeline Inspection Robots Consumption (2021-2032)
- 2.6 Japan Pipeline Inspection Robots Consumption (2021-2032)
- 2.7 South Korea Pipeline Inspection Robots Consumption (2021-2032)
- 2.8 ASEAN Pipeline Inspection Robots Consumption (2021-2032)
- 2.9 India Pipeline Inspection Robots Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Pipeline Inspection Robots Production Value by Manufacturer (2021-2026)

- 3.2 World Pipeline Inspection Robots Production by Manufacturer (2021-2026)
- 3.3 World Pipeline Inspection Robots Average Price by Manufacturer (2021-2026)
- 3.4 Pipeline Inspection Robots Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Pipeline Inspection Robots Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Pipeline Inspection Robots in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Pipeline Inspection Robots in 2025
- 3.6 Pipeline Inspection Robots Market: Overall Company Footprint Analysis
  - 3.6.1 Pipeline Inspection Robots Market: Region Footprint
  - 3.6.2 Pipeline Inspection Robots Market: Company Product Type Footprint
  - 3.6.3 Pipeline Inspection Robots Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Pipeline Inspection Robots Production Value Comparison
  - 4.1.1 United States VS China: Pipeline Inspection Robots Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Pipeline Inspection Robots Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Pipeline Inspection Robots Production Comparison
  - 4.2.1 United States VS China: Pipeline Inspection Robots Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Pipeline Inspection Robots Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Pipeline Inspection Robots Consumption Comparison
  - 4.3.1 United States VS China: Pipeline Inspection Robots Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Pipeline Inspection Robots Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Pipeline Inspection Robots Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Pipeline Inspection Robots Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Pipeline Inspection Robots Production Value (2021-2026)

4.4.3 United States Based Manufacturers Pipeline Inspection Robots Production (2021-2026)

4.5 China Based Pipeline Inspection Robots Manufacturers and Market Share

4.5.1 China Based Pipeline Inspection Robots Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Pipeline Inspection Robots Production Value (2021-2026)

4.5.3 China Based Manufacturers Pipeline Inspection Robots Production (2021-2026)

4.6 Rest of World Based Pipeline Inspection Robots Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Pipeline Inspection Robots Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Pipeline Inspection Robots Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Pipeline Inspection Robots Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Pipeline Inspection Robots Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Wheel Type

5.2.2 Crawler Type

5.2.3 Orbital Type

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Pipeline Inspection Robots Production by Type (2021-2032)

5.3.2 World Pipeline Inspection Robots Production Value by Type (2021-2032)

5.3.3 World Pipeline Inspection Robots Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY CORE DETECTION FUNCTION**

6.1 World Pipeline Inspection Robots Market Size Overview by Core Detection Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Core Detection Function

6.2.1 Visual Inspection Type

- 6.2.2 Non-destructive Testing Type
- 6.2.3 Comprehensive Detection Type
- 6.3 Market Segment by Core Detection Function
  - 6.3.1 World Pipeline Inspection Robots Production by Core Detection Function (2021-2032)
  - 6.3.2 World Pipeline Inspection Robots Production Value by Core Detection Function (2021-2032)
  - 6.3.3 World Pipeline Inspection Robots Average Price by Core Detection Function (2021-2032)

## **7 MARKET ANALYSIS BY AUTONOMOUS NAVIGATION GRADE**

- 7.1 World Pipeline Inspection Robots Market Size Overview by Autonomous Navigation Grade: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Autonomous Navigation Grade
  - 7.2.1 Manual Remote Control Grade
  - 7.2.2 Semi-autonomous Grade
  - 7.2.3 Fully Autonomous Grade
- 7.3 Market Segment by Autonomous Navigation Grade
  - 7.3.1 World Pipeline Inspection Robots Production by Autonomous Navigation Grade (2021-2032)
  - 7.3.2 World Pipeline Inspection Robots Production Value by Autonomous Navigation Grade (2021-2032)
  - 7.3.3 World Pipeline Inspection Robots Average Price by Autonomous Navigation Grade (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Pipeline Inspection Robots Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Water Supply
  - 8.2.2 Oil Pipeline
  - 8.2.3 Gas Pipeline
  - 8.2.4 Sewage Pipe
  - 8.2.5 Others
- 8.3 Market Segment by Application
  - 8.3.1 World Pipeline Inspection Robots Production by Application (2021-2032)
  - 8.3.2 World Pipeline Inspection Robots Production Value by Application (2021-2032)

### 8.3.3 World Pipeline Inspection Robots Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Waygate Technologies

#### 9.1.1 Waygate Technologies Details

#### 9.1.2 Waygate Technologies Major Business

#### 9.1.3 Waygate Technologies Pipeline Inspection Robots Product and Services

#### 9.1.4 Waygate Technologies Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.1.5 Waygate Technologies Recent Developments/Updates

#### 9.1.6 Waygate Technologies Competitive Strengths & Weaknesses

### 9.2 CUES

#### 9.2.1 CUES Details

#### 9.2.2 CUES Major Business

#### 9.2.3 CUES Pipeline Inspection Robots Product and Services

#### 9.2.4 CUES Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.2.5 CUES Recent Developments/Updates

#### 9.2.6 CUES Competitive Strengths & Weaknesses

### 9.3 iPEK

#### 9.3.1 iPEK Details

#### 9.3.2 iPEK Major Business

#### 9.3.3 iPEK Pipeline Inspection Robots Product and Services

#### 9.3.4 iPEK Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 iPEK Recent Developments/Updates

#### 9.3.6 iPEK Competitive Strengths & Weaknesses

### 9.4 IBAK Helmut Hunger

#### 9.4.1 IBAK Helmut Hunger Details

#### 9.4.2 IBAK Helmut Hunger Major Business

#### 9.4.3 IBAK Helmut Hunger Pipeline Inspection Robots Product and Services

#### 9.4.4 IBAK Helmut Hunger Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 IBAK Helmut Hunger Recent Developments/Updates

#### 9.4.6 IBAK Helmut Hunger Competitive Strengths & Weaknesses

### 9.5 Mini-Cam Ltd

#### 9.5.1 Mini-Cam Ltd Details

#### 9.5.2 Mini-Cam Ltd Major Business

- 9.5.3 Mini-Cam Ltd Pipeline Inspection Robots Product and Services
- 9.5.4 Mini-Cam Ltd Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Mini-Cam Ltd Recent Developments/Updates
- 9.5.6 Mini-Cam Ltd Competitive Strengths & Weaknesses
- 9.6 RedZone Robotics
  - 9.6.1 RedZone Robotics Details
  - 9.6.2 RedZone Robotics Major Business
  - 9.6.3 RedZone Robotics Pipeline Inspection Robots Product and Services
  - 9.6.4 RedZone Robotics Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 RedZone Robotics Recent Developments/Updates
  - 9.6.6 RedZone Robotics Competitive Strengths & Weaknesses
- 9.7 Envirosight
  - 9.7.1 Envirosight Details
  - 9.7.2 Envirosight Major Business
  - 9.7.3 Envirosight Pipeline Inspection Robots Product and Services
  - 9.7.4 Envirosight Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Envirosight Recent Developments/Updates
  - 9.7.6 Envirosight Competitive Strengths & Weaknesses
- 9.8 Eddyfi Technologies
  - 9.8.1 Eddyfi Technologies Details
  - 9.8.2 Eddyfi Technologies Major Business
  - 9.8.3 Eddyfi Technologies Pipeline Inspection Robots Product and Services
  - 9.8.4 Eddyfi Technologies Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Eddyfi Technologies Recent Developments/Updates
  - 9.8.6 Eddyfi Technologies Competitive Strengths & Weaknesses
- 9.9 HiBot
  - 9.9.1 HiBot Details
  - 9.9.2 HiBot Major Business
  - 9.9.3 HiBot Pipeline Inspection Robots Product and Services
  - 9.9.4 HiBot Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 HiBot Recent Developments/Updates
  - 9.9.6 HiBot Competitive Strengths & Weaknesses
- 9.10 Wuhan Easy-Sight Technology
  - 9.10.1 Wuhan Easy-Sight Technology Details

- 9.10.2 Wuhan Easy-Sight Technology Major Business
- 9.10.3 Wuhan Easy-Sight Technology Pipeline Inspection Robots Product and Services
- 9.10.4 Wuhan Easy-Sight Technology Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Wuhan Easy-Sight Technology Recent Developments/Updates
- 9.10.6 Wuhan Easy-Sight Technology Competitive Strengths & Weaknesses
- 9.11 Wuhan Trio-Vision Electronic Technology
  - 9.11.1 Wuhan Trio-Vision Electronic Technology Details
  - 9.11.2 Wuhan Trio-Vision Electronic Technology Major Business
  - 9.11.3 Wuhan Trio-Vision Electronic Technology Pipeline Inspection Robots Product and Services
  - 9.11.4 Wuhan Trio-Vision Electronic Technology Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Wuhan Trio-Vision Electronic Technology Recent Developments/Updates
  - 9.11.6 Wuhan Trio-Vision Electronic Technology Competitive Strengths & Weaknesses
- 9.12 SuperDroid Robots
  - 9.12.1 SuperDroid Robots Details
  - 9.12.2 SuperDroid Robots Major Business
  - 9.12.3 SuperDroid Robots Pipeline Inspection Robots Product and Services
  - 9.12.4 SuperDroid Robots Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 SuperDroid Robots Recent Developments/Updates
  - 9.12.6 SuperDroid Robots Competitive Strengths & Weaknesses
- 9.13 Shenzhen SROD Industrial
  - 9.13.1 Shenzhen SROD Industrial Details
  - 9.13.2 Shenzhen SROD Industrial Major Business
  - 9.13.3 Shenzhen SROD Industrial Pipeline Inspection Robots Product and Services
  - 9.13.4 Shenzhen SROD Industrial Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Shenzhen SROD Industrial Recent Developments/Updates
  - 9.13.6 Shenzhen SROD Industrial Competitive Strengths & Weaknesses
- 9.14 Inspector Systems
  - 9.14.1 Inspector Systems Details
  - 9.14.2 Inspector Systems Major Business
  - 9.14.3 Inspector Systems Pipeline Inspection Robots Product and Services
  - 9.14.4 Inspector Systems Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.14.5 Inspector Systems Recent Developments/Updates
- 9.14.6 Inspector Systems Competitive Strengths & Weaknesses
- 9.15 ULC Technologies, LLC
  - 9.15.1 ULC Technologies, LLC Details
  - 9.15.2 ULC Technologies, LLC Major Business
  - 9.15.3 ULC Technologies, LLC Pipeline Inspection Robots Product and Services
  - 9.15.4 ULC Technologies, LLC Pipeline Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 ULC Technologies, LLC Recent Developments/Updates
  - 9.15.6 ULC Technologies, LLC Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Pipeline Inspection Robots Industry Chain
- 10.2 Pipeline Inspection Robots Upstream Analysis
  - 10.2.1 Pipeline Inspection Robots Core Raw Materials
  - 10.2.2 Main Manufacturers of Pipeline Inspection Robots Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Pipeline Inspection Robots Production Mode
- 10.6 Pipeline Inspection Robots Procurement Model
- 10.7 Pipeline Inspection Robots Industry Sales Model and Sales Channels
  - 10.7.1 Pipeline Inspection Robots Sales Model
  - 10.7.2 Pipeline Inspection Robots Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Pipeline Inspection Robots Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Pipeline Inspection Robots Production Value by Region (2021-2026) & (USD Million)

Table 3. World Pipeline Inspection Robots Production Value by Region (2027-2032) & (USD Million)

Table 4. World Pipeline Inspection Robots Production Value Market Share by Region (2021-2026)

Table 5. World Pipeline Inspection Robots Production Value Market Share by Region (2027-2032)

Table 6. World Pipeline Inspection Robots Production by Region (2021-2026) & (Units)

Table 7. World Pipeline Inspection Robots Production by Region (2027-2032) & (Units)

Table 8. World Pipeline Inspection Robots Production Market Share by Region (2021-2026)

Table 9. World Pipeline Inspection Robots Production Market Share by Region (2027-2032)

Table 10. World Pipeline Inspection Robots Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Pipeline Inspection Robots Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Pipeline Inspection Robots Major Market Trends

Table 13. World Pipeline Inspection Robots Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Pipeline Inspection Robots Consumption by Region (2021-2026) & (Units)

Table 15. World Pipeline Inspection Robots Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Pipeline Inspection Robots Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Pipeline Inspection Robots Producers in 2025

Table 18. World Pipeline Inspection Robots Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Pipeline Inspection Robots Producers in 2025

Table 20. World Pipeline Inspection Robots Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Pipeline Inspection Robots Company Evaluation Quadrant

Table 22. World Pipeline Inspection Robots Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Pipeline Inspection Robots Production Site of Key Manufacturer

Table 24. Pipeline Inspection Robots Market: Company Product Type Footprint

Table 25. Pipeline Inspection Robots Market: Company Product Application Footprint

Table 26. Pipeline Inspection Robots Competitive Factors

Table 27. Pipeline Inspection Robots New Entrant and Capacity Expansion Plans

Table 28. Pipeline Inspection Robots Mergers & Acquisitions Activity

Table 29. United States VS China Pipeline Inspection Robots Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Pipeline Inspection Robots Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Pipeline Inspection Robots Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Pipeline Inspection Robots Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Pipeline Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Pipeline Inspection Robots Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Pipeline Inspection Robots Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Pipeline Inspection Robots Production Market Share (2021-2026)

Table 37. China Based Pipeline Inspection Robots Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Pipeline Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Pipeline Inspection Robots Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Pipeline Inspection Robots Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Pipeline Inspection Robots Production Market Share (2021-2026)

Table 42. Rest of World Based Pipeline Inspection Robots Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Pipeline Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Pipeline Inspection Robots Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Pipeline Inspection Robots Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Pipeline Inspection Robots Production Market Share (2021-2026)

Table 47. World Pipeline Inspection Robots Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Pipeline Inspection Robots Production by Type (2021-2026) & (Units)

Table 49. World Pipeline Inspection Robots Production by Type (2027-2032) & (Units)

Table 50. World Pipeline Inspection Robots Production Value by Type (2021-2026) & (USD Million)

Table 51. World Pipeline Inspection Robots Production Value by Type (2027-2032) & (USD Million)

Table 52. World Pipeline Inspection Robots Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Pipeline Inspection Robots Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Pipeline Inspection Robots Production Value by Core Detection Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Pipeline Inspection Robots Production by Core Detection Function (2021-2026) & (Units)

Table 56. World Pipeline Inspection Robots Production by Core Detection Function (2027-2032) & (Units)

Table 57. World Pipeline Inspection Robots Production Value by Core Detection Function (2021-2026) & (USD Million)

Table 58. World Pipeline Inspection Robots Production Value by Core Detection Function (2027-2032) & (USD Million)

Table 59. World Pipeline Inspection Robots Average Price by Core Detection Function (2021-2026) & (K US\$/Unit)

Table 60. World Pipeline Inspection Robots Average Price by Core Detection Function (2027-2032) & (K US\$/Unit)

Table 61. World Pipeline Inspection Robots Production Value by Autonomous Navigation Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Pipeline Inspection Robots Production by Autonomous Navigation Grade (2021-2026) & (Units)

Table 63. World Pipeline Inspection Robots Production by Autonomous Navigation Grade (2027-2032) & (Units)

Table 64. World Pipeline Inspection Robots Production Value by Autonomous Navigation Grade (2021-2026) & (USD Million)

Table 65. World Pipeline Inspection Robots Production Value by Autonomous Navigation Grade (2027-2032) & (USD Million)

Table 66. World Pipeline Inspection Robots Average Price by Autonomous Navigation Grade (2021-2026) & (K US\$/Unit)

Table 67. World Pipeline Inspection Robots Average Price by Autonomous Navigation Grade (2027-2032) & (K US\$/Unit)

Table 68. World Pipeline Inspection Robots Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Pipeline Inspection Robots Production by Application (2021-2026) & (Units)

Table 70. World Pipeline Inspection Robots Production by Application (2027-2032) & (Units)

Table 71. World Pipeline Inspection Robots Production Value by Application (2021-2026) & (USD Million)

Table 72. World Pipeline Inspection Robots Production Value by Application (2027-2032) & (USD Million)

Table 73. World Pipeline Inspection Robots Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Pipeline Inspection Robots Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Waygate Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Waygate Technologies Major Business

Table 77. Waygate Technologies Pipeline Inspection Robots Product and Services

Table 78. Waygate Technologies Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Waygate Technologies Recent Developments/Updates

Table 80. Waygate Technologies Competitive Strengths & Weaknesses

Table 81. CUES Basic Information, Manufacturing Base and Competitors

Table 82. CUES Major Business

Table 83. CUES Pipeline Inspection Robots Product and Services

Table 84. CUES Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. CUES Recent Developments/Updates

- Table 86. CUES Competitive Strengths & Weaknesses
- Table 87. iPEK Basic Information, Manufacturing Base and Competitors
- Table 88. iPEK Major Business
- Table 89. iPEK Pipeline Inspection Robots Product and Services
- Table 90. iPEK Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. iPEK Recent Developments/Updates
- Table 92. iPEK Competitive Strengths & Weaknesses
- Table 93. IBAK Helmut Hunger Basic Information, Manufacturing Base and Competitors
- Table 94. IBAK Helmut Hunger Major Business
- Table 95. IBAK Helmut Hunger Pipeline Inspection Robots Product and Services
- Table 96. IBAK Helmut Hunger Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. IBAK Helmut Hunger Recent Developments/Updates
- Table 98. IBAK Helmut Hunger Competitive Strengths & Weaknesses
- Table 99. Mini-Cam Ltd Basic Information, Manufacturing Base and Competitors
- Table 100. Mini-Cam Ltd Major Business
- Table 101. Mini-Cam Ltd Pipeline Inspection Robots Product and Services
- Table 102. Mini-Cam Ltd Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Mini-Cam Ltd Recent Developments/Updates
- Table 104. Mini-Cam Ltd Competitive Strengths & Weaknesses
- Table 105. RedZone Robotics Basic Information, Manufacturing Base and Competitors
- Table 106. RedZone Robotics Major Business
- Table 107. RedZone Robotics Pipeline Inspection Robots Product and Services
- Table 108. RedZone Robotics Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. RedZone Robotics Recent Developments/Updates
- Table 110. RedZone Robotics Competitive Strengths & Weaknesses
- Table 111. Envirosight Basic Information, Manufacturing Base and Competitors
- Table 112. Envirosight Major Business
- Table 113. Envirosight Pipeline Inspection Robots Product and Services
- Table 114. Envirosight Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Envirosight Recent Developments/Updates

Table 116. Envirosight Competitive Strengths & Weaknesses

Table 117. Eddyfi Technologies Basic Information, Manufacturing Base and Competitors

Table 118. Eddyfi Technologies Major Business

Table 119. Eddyfi Technologies Pipeline Inspection Robots Product and Services

Table 120. Eddyfi Technologies Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Eddyfi Technologies Recent Developments/Updates

Table 122. Eddyfi Technologies Competitive Strengths & Weaknesses

Table 123. HiBot Basic Information, Manufacturing Base and Competitors

Table 124. HiBot Major Business

Table 125. HiBot Pipeline Inspection Robots Product and Services

Table 126. HiBot Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. HiBot Recent Developments/Updates

Table 128. HiBot Competitive Strengths & Weaknesses

Table 129. Wuhan Easy-Sight Technology Basic Information, Manufacturing Base and Competitors

Table 130. Wuhan Easy-Sight Technology Major Business

Table 131. Wuhan Easy-Sight Technology Pipeline Inspection Robots Product and Services

Table 132. Wuhan Easy-Sight Technology Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Wuhan Easy-Sight Technology Recent Developments/Updates

Table 134. Wuhan Easy-Sight Technology Competitive Strengths & Weaknesses

Table 135. Wuhan Trio-Vision Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 136. Wuhan Trio-Vision Electronic Technology Major Business

Table 137. Wuhan Trio-Vision Electronic Technology Pipeline Inspection Robots Product and Services

Table 138. Wuhan Trio-Vision Electronic Technology Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuhan Trio-Vision Electronic Technology Recent Developments/Updates

Table 140. Wuhan Trio-Vision Electronic Technology Competitive Strengths & Weaknesses

Table 141. SuperDroid Robots Basic Information, Manufacturing Base and Competitors

Table 142. SuperDroid Robots Major Business

Table 143. SuperDroid Robots Pipeline Inspection Robots Product and Services

Table 144. SuperDroid Robots Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. SuperDroid Robots Recent Developments/Updates

Table 146. SuperDroid Robots Competitive Strengths & Weaknesses

Table 147. Shenzhen SROD Industrial Basic Information, Manufacturing Base and Competitors

Table 148. Shenzhen SROD Industrial Major Business

Table 149. Shenzhen SROD Industrial Pipeline Inspection Robots Product and Services

Table 150. Shenzhen SROD Industrial Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shenzhen SROD Industrial Recent Developments/Updates

Table 152. Shenzhen SROD Industrial Competitive Strengths & Weaknesses

Table 153. Inspector Systems Basic Information, Manufacturing Base and Competitors

Table 154. Inspector Systems Major Business

Table 155. Inspector Systems Pipeline Inspection Robots Product and Services

Table 156. Inspector Systems Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Inspector Systems Recent Developments/Updates

Table 158. Inspector Systems Competitive Strengths & Weaknesses

Table 159. ULC Technologies, LLC Basic Information, Manufacturing Base and Competitors

Table 160. ULC Technologies, LLC Major Business

Table 161. ULC Technologies, LLC Pipeline Inspection Robots Product and Services

Table 162. ULC Technologies, LLC Pipeline Inspection Robots Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. ULC Technologies, LLC Recent Developments/Updates

Table 164. ULC Technologies, LLC Competitive Strengths & Weaknesses

Table 165. Global Key Players of Pipeline Inspection Robots Upstream (Raw Materials)

Table 166. Global Pipeline Inspection Robots Typical Customers

Table 167. Pipeline Inspection Robots Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Pipeline Inspection Robots Picture

Figure 2. World Pipeline Inspection Robots Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Pipeline Inspection Robots Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Pipeline Inspection Robots Production (2021-2032) & (Units)

Figure 5. World Pipeline Inspection Robots Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Pipeline Inspection Robots Production Value Market Share by Region (2021-2032)

Figure 7. World Pipeline Inspection Robots Production Market Share by Region (2021-2032)

Figure 8. North America Pipeline Inspection Robots Production (2021-2032) & (Units)

Figure 9. Europe Pipeline Inspection Robots Production (2021-2032) & (Units)

Figure 10. China Pipeline Inspection Robots Production (2021-2032) & (Units)

Figure 11. Japan Pipeline Inspection Robots Production (2021-2032) & (Units)

Figure 12. Pipeline Inspection Robots Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 15. World Pipeline Inspection Robots Consumption Market Share by Region (2021-2032)

Figure 16. United States Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 17. China Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 18. Europe Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 19. Japan Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 20. South Korea Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 21. ASEAN Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 22. India Pipeline Inspection Robots Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Pipeline Inspection Robots by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Pipeline Inspection Robots Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Pipeline Inspection Robots Markets in 2025

Figure 26. United States VS China: Pipeline Inspection Robots Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Pipeline Inspection Robots Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Pipeline Inspection Robots Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Pipeline Inspection Robots Production Market Share 2025

Figure 30. China Based Manufacturers Pipeline Inspection Robots Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Pipeline Inspection Robots Production Market Share 2025

Figure 32. World Pipeline Inspection Robots Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Pipeline Inspection Robots Production Value Market Share by Type in 2025

Figure 34. Wheel Type

Figure 35. Crawler Type

Figure 36. Orbital Type

Figure 37. Others

Figure 38. World Pipeline Inspection Robots Production Market Share by Type (2021-2032)

Figure 39. World Pipeline Inspection Robots Production Value Market Share by Type (2021-2032)

Figure 40. World Pipeline Inspection Robots Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 41. World Pipeline Inspection Robots Production Value by Core Detection Function, (USD Million), 2021 & 2025 & 2032

Figure 42. World Pipeline Inspection Robots Production Value Market Share by Core Detection Function in 2025

Figure 43. Visual Inspection Type

Figure 44. Non-destructive Testing Type

Figure 45. Comprehensive Detection Type

Figure 46. World Pipeline Inspection Robots Production Market Share by Core Detection Function (2021-2032)

Figure 47. World Pipeline Inspection Robots Production Value Market Share by Core Detection Function (2021-2032)

Figure 48. World Pipeline Inspection Robots Average Price by Core Detection Function (2021-2032) & (K US\$/Unit)

Figure 49. World Pipeline Inspection Robots Production Value by Autonomous Navigation Grade, (USD Million), 2021 & 2025 & 2032

- Figure 50. World Pipeline Inspection Robots Production Value Market Share by Autonomous Navigation Grade in 2025
- Figure 51. Manual Remote Control Grade
- Figure 52. Semi-autonomous Grade
- Figure 53. Fully Autonomous Grade
- Figure 54. World Pipeline Inspection Robots Production Market Share by Autonomous Navigation Grade (2021-2032)
- Figure 55. World Pipeline Inspection Robots Production Value Market Share by Autonomous Navigation Grade (2021-2032)
- Figure 56. World Pipeline Inspection Robots Average Price by Autonomous Navigation Grade (2021-2032) & (K US\$/Unit)
- Figure 57. World Pipeline Inspection Robots Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 58. World Pipeline Inspection Robots Production Value Market Share by Application in 2025
- Figure 59. Water Supply
- Figure 60. Oil Pipeline
- Figure 61. Gas Pipeline
- Figure 62. Sewage Pipe
- Figure 63. Others
- Figure 64. World Pipeline Inspection Robots Production Market Share by Application (2021-2032)
- Figure 65. World Pipeline Inspection Robots Production Value Market Share by Application (2021-2032)
- Figure 66. World Pipeline Inspection Robots Average Price by Application (2021-2032) & (K US\$/Unit)
- Figure 67. Pipeline Inspection Robots Industry Chain
- Figure 68. Pipeline Inspection Robots Procurement Model
- Figure 69. Pipeline Inspection Robots Sales Model
- Figure 70. Pipeline Inspection Robots Sales Channels, Direct Sales, and Distribution
- Figure 71. Methodology
- Figure 72. Research Process and Data Source

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