

Global NDT Robotic System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NDT Robotic System market size is expected to reach \$ 1576 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

NDT robotic systems are integrated automated inspection platforms that combine robotic mobility or manipulation with non-destructive testing technologies such as ultrasonic testing, phased array, eddy current, visual inspection, or other sensing methods to inspect components and infrastructure without causing damage. These systems may take the form of magnetic crawlers, pipe crawlers, robotic arms, automated gantries, subsea robots, or aerial robots, and are designed to improve inspection consistency, operator safety, data traceability, and access to hazardous or confined environments. From a value chain perspective, upstream includes robotic actuators, controllers, sensors, encoders, cameras, ultrasonic and electromagnetic probes, software, and structural components; midstream involves robot integration, motion control, NDT payload integration, system calibration, and application-specific engineering; downstream demand comes from oil & gas, power generation, aerospace, rail, shipbuilding, manufacturing, and asset integrity service providers. In 2025, the average selling price is approximately US\$86,000 per unit, with global shipments reaching about 7,850 units. The industry maintains gross margins of 28%-46%, supported by system integration capability, proprietary motion control, application know-how, and high-value industrial inspection demand.

A major structural driver is the replacement of manual access methods such as scaffolding, rope access, shutdown entry, and confined-space intervention with robotic inspection. Vendors emphasize that robotic systems reduce human exposure to risk while improving repeatability, coverage, and inspection data quality, especially for tanks, pressure vessels, pipes, wind assets, power facilities, and subsea infrastructure. This

makes robotic NDT particularly attractive in asset-intensive industries where downtime costs are high and regulatory requirements are strict. Another important trend is application-specific specialization. Some systems are optimized for ferrous surfaces through magnetic adhesion, some for pipe interiors and unpiggable pipelines, some for composite aerospace components using robotic arms and immersion cells, and some for contact-based aerial UT thickness measurement. This means competition is no longer only about robot hardware, but also about payload integration, software, path planning, data interpretation, and industry-specific engineering know-how.

This report studies the global NDT Robotic System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NDT Robotic System 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 NDT Robotic System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NDT Robotic System total production and demand, 2021-2032, (K Units)

Global NDT Robotic System total production value, 2021-2032, (USD Million)

Global NDT Robotic System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global NDT Robotic System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: NDT Robotic System domestic production, consumption, key domestic manufacturers and share

Global NDT Robotic System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global NDT Robotic System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global NDT Robotic System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global NDT Robotic System 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, Eddyfi Technologies, Voliro, Gecko Robotics, Tecnitest Ingenieros, Innerspec Technologies, TSC Subsea,

Sonomatic, TPAC, Evident, 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 NDT Robotic System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 NDT Robotic System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NDT Robotic System Market, Segmentation by Type:

Wheel Inspection Robot

Tracked Inspection Robot

Others

Global NDT Robotic System Market, Segmentation by Operation Mode:

Manual Remote-controlled

Semi-autonomous

Fully Automated

Global NDT Robotic System Market, Segmentation by Power Supply:

Tethered Power

Battery-powered

Hybrid Power

Global NDT Robotic System Market, Segmentation by Application:

Oil and Gas Industry

Water Industry

Others

Companies Profiled:

Waygate Technologies

Eddyfi Technologies

Voliro

Gecko Robotics

Tecnitest Ingenieros

Innerspec Technologies

TSC Subsea

Sonomatic

TPAC

Evident

Guangzhou Doppler Electronic Technologies

Beijing Polaris Cscan Technology

Key Questions Answered:

1. How big is the global NDT Robotic System market?
2. What is the demand of the global NDT Robotic System market?
3. What is the year over year growth of the global NDT Robotic System market?
4. What is the production and production value of the global NDT Robotic System market?
5. Who are the key producers in the global NDT Robotic System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World NDT Robotic System Production Value by Manufacturer (2021-2026)

- 3.2 World NDT Robotic System Production by Manufacturer (2021-2026)
- 3.3 World NDT Robotic System Average Price by Manufacturer (2021-2026)
- 3.4 NDT Robotic System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global NDT Robotic System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for NDT Robotic System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for NDT Robotic System in 2025
- 3.6 NDT Robotic System Market: Overall Company Footprint Analysis
 - 3.6.1 NDT Robotic System Market: Region Footprint
 - 3.6.2 NDT Robotic System Market: Company Product Type Footprint
 - 3.6.3 NDT Robotic System 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: NDT Robotic System Production Value Comparison
 - 4.1.1 United States VS China: NDT Robotic System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: NDT Robotic System Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: NDT Robotic System Production Comparison
 - 4.2.1 United States VS China: NDT Robotic System Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: NDT Robotic System Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: NDT Robotic System Consumption Comparison
 - 4.3.1 United States VS China: NDT Robotic System Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: NDT Robotic System Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based NDT Robotic System Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based NDT Robotic System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers NDT Robotic System Production Value (2021-2026)

4.4.3 United States Based Manufacturers NDT Robotic System Production (2021-2026)

4.5 China Based NDT Robotic System Manufacturers and Market Share

4.5.1 China Based NDT Robotic System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers NDT Robotic System Production Value (2021-2026)

4.5.3 China Based Manufacturers NDT Robotic System Production (2021-2026)

4.6 Rest of World Based NDT Robotic System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based NDT Robotic System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers NDT Robotic System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers NDT Robotic System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World NDT Robotic System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Wheel Inspection Robot

5.2.2 Tracked Inspection Robot

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World NDT Robotic System Production by Type (2021-2032)

5.3.2 World NDT Robotic System Production Value by Type (2021-2032)

5.3.3 World NDT Robotic System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPERATION MODE

6.1 World NDT Robotic System Market Size Overview by Operation Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operation Mode

6.2.1 Manual Remote-controlled

6.2.2 Semi-autonomous

6.2.3 Fully Automated

6.3 Market Segment by Operation Mode

- 6.3.1 World NDT Robotic System Production by Operation Mode (2021-2032)
- 6.3.2 World NDT Robotic System Production Value by Operation Mode (2021-2032)
- 6.3.3 World NDT Robotic System Average Price by Operation Mode (2021-2032)

7 MARKET ANALYSIS BY POWER SUPPLY

- 7.1 World NDT Robotic System Market Size Overview by Power Supply: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Power Supply
 - 7.2.1 Tethered Power
 - 7.2.2 Battery-powered
 - 7.2.3 Hybrid Power
- 7.3 Market Segment by Power Supply
 - 7.3.1 World NDT Robotic System Production by Power Supply (2021-2032)
 - 7.3.2 World NDT Robotic System Production Value by Power Supply (2021-2032)
 - 7.3.3 World NDT Robotic System Average Price by Power Supply (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World NDT Robotic System Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Oil and Gas Industry
 - 8.2.2 Water Industry
 - 8.2.3 Others
- 8.3 Market Segment by Application
 - 8.3.1 World NDT Robotic System Production by Application (2021-2032)
 - 8.3.2 World NDT Robotic System Production Value by Application (2021-2032)
 - 8.3.3 World NDT Robotic System 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 NDT Robotic System Product and Services
 - 9.1.4 Waygate Technologies NDT Robotic System 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 Eddyfi Technologies
 - 9.2.1 Eddyfi Technologies Details
 - 9.2.2 Eddyfi Technologies Major Business
 - 9.2.3 Eddyfi Technologies NDT Robotic System Product and Services
 - 9.2.4 Eddyfi Technologies NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Eddyfi Technologies Recent Developments/Updates
 - 9.2.6 Eddyfi Technologies Competitive Strengths & Weaknesses
- 9.3 Voliro
 - 9.3.1 Voliro Details
 - 9.3.2 Voliro Major Business
 - 9.3.3 Voliro NDT Robotic System Product and Services
 - 9.3.4 Voliro NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Voliro Recent Developments/Updates
 - 9.3.6 Voliro Competitive Strengths & Weaknesses
- 9.4 Gecko Robotics
 - 9.4.1 Gecko Robotics Details
 - 9.4.2 Gecko Robotics Major Business
 - 9.4.3 Gecko Robotics NDT Robotic System Product and Services
 - 9.4.4 Gecko Robotics NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Gecko Robotics Recent Developments/Updates
 - 9.4.6 Gecko Robotics Competitive Strengths & Weaknesses
- 9.5 Tecnitest Ingenieros
 - 9.5.1 Tecnitest Ingenieros Details
 - 9.5.2 Tecnitest Ingenieros Major Business
 - 9.5.3 Tecnitest Ingenieros NDT Robotic System Product and Services
 - 9.5.4 Tecnitest Ingenieros NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Tecnitest Ingenieros Recent Developments/Updates
 - 9.5.6 Tecnitest Ingenieros Competitive Strengths & Weaknesses
- 9.6 Innerspec Technologies
 - 9.6.1 Innerspec Technologies Details
 - 9.6.2 Innerspec Technologies Major Business
 - 9.6.3 Innerspec Technologies NDT Robotic System Product and Services
 - 9.6.4 Innerspec Technologies NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Innerspec Technologies Recent Developments/Updates
- 9.6.6 Innerspec Technologies Competitive Strengths & Weaknesses
- 9.7 TSC Subsea
 - 9.7.1 TSC Subsea Details
 - 9.7.2 TSC Subsea Major Business
 - 9.7.3 TSC Subsea NDT Robotic System Product and Services
 - 9.7.4 TSC Subsea NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 TSC Subsea Recent Developments/Updates
 - 9.7.6 TSC Subsea Competitive Strengths & Weaknesses
- 9.8 Sonomatic
 - 9.8.1 Sonomatic Details
 - 9.8.2 Sonomatic Major Business
 - 9.8.3 Sonomatic NDT Robotic System Product and Services
 - 9.8.4 Sonomatic NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Sonomatic Recent Developments/Updates
 - 9.8.6 Sonomatic Competitive Strengths & Weaknesses
- 9.9 TPAC
 - 9.9.1 TPAC Details
 - 9.9.2 TPAC Major Business
 - 9.9.3 TPAC NDT Robotic System Product and Services
 - 9.9.4 TPAC NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 TPAC Recent Developments/Updates
 - 9.9.6 TPAC Competitive Strengths & Weaknesses
- 9.10 Evident
 - 9.10.1 Evident Details
 - 9.10.2 Evident Major Business
 - 9.10.3 Evident NDT Robotic System Product and Services
 - 9.10.4 Evident NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Evident Recent Developments/Updates
 - 9.10.6 Evident Competitive Strengths & Weaknesses
- 9.11 Guangzhou Doppler Electronic Technologies
 - 9.11.1 Guangzhou Doppler Electronic Technologies Details
 - 9.11.2 Guangzhou Doppler Electronic Technologies Major Business
 - 9.11.3 Guangzhou Doppler Electronic Technologies NDT Robotic System Product and Services

9.11.4 Guangzhou Doppler Electronic Technologies NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Guangzhou Doppler Electronic Technologies Recent Developments/Updates

9.11.6 Guangzhou Doppler Electronic Technologies Competitive Strengths & Weaknesses

9.12 Beijing Polaris Cscan Technology

9.12.1 Beijing Polaris Cscan Technology Details

9.12.2 Beijing Polaris Cscan Technology Major Business

9.12.3 Beijing Polaris Cscan Technology NDT Robotic System Product and Services

9.12.4 Beijing Polaris Cscan Technology NDT Robotic System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Beijing Polaris Cscan Technology Recent Developments/Updates

9.12.6 Beijing Polaris Cscan Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 NDT Robotic System Industry Chain

10.2 NDT Robotic System Upstream Analysis

10.2.1 NDT Robotic System Core Raw Materials

10.2.2 Main Manufacturers of NDT Robotic System Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 NDT Robotic System Production Mode

10.6 NDT Robotic System Procurement Model

10.7 NDT Robotic System Industry Sales Model and Sales Channels

10.7.1 NDT Robotic System Sales Model

10.7.2 NDT Robotic System 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 NDT Robotic System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World NDT Robotic System Production Value by Region (2021-2026) & (USD Million)

Table 3. World NDT Robotic System Production Value by Region (2027-2032) & (USD Million)

Table 4. World NDT Robotic System Production Value Market Share by Region (2021-2026)

Table 5. World NDT Robotic System Production Value Market Share by Region (2027-2032)

Table 6. World NDT Robotic System Production by Region (2021-2026) & (K Units)

Table 7. World NDT Robotic System Production by Region (2027-2032) & (K Units)

Table 8. World NDT Robotic System Production Market Share by Region (2021-2026)

Table 9. World NDT Robotic System Production Market Share by Region (2027-2032)

Table 10. World NDT Robotic System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World NDT Robotic System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. NDT Robotic System Major Market Trends

Table 13. World NDT Robotic System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World NDT Robotic System Consumption by Region (2021-2026) & (K Units)

Table 15. World NDT Robotic System Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World NDT Robotic System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key NDT Robotic System Producers in 2025

Table 18. World NDT Robotic System Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key NDT Robotic System Producers in 2025

Table 20. World NDT Robotic System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global NDT Robotic System Company Evaluation Quadrant

Table 22. World NDT Robotic System Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and NDT Robotic System Production Site of Key Manufacturer

Table 24. NDT Robotic System Market: Company Product Type Footprint

Table 25. NDT Robotic System Market: Company Product Application Footprint

Table 26. NDT Robotic System Competitive Factors

Table 27. NDT Robotic System New Entrant and Capacity Expansion Plans

Table 28. NDT Robotic System Mergers & Acquisitions Activity

Table 29. United States VS China NDT Robotic System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China NDT Robotic System Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China NDT Robotic System Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based NDT Robotic System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers NDT Robotic System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers NDT Robotic System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers NDT Robotic System Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers NDT Robotic System Production Market Share (2021-2026)

Table 37. China Based NDT Robotic System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers NDT Robotic System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers NDT Robotic System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers NDT Robotic System Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers NDT Robotic System Production Market Share (2021-2026)

Table 42. Rest of World Based NDT Robotic System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers NDT Robotic System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers NDT Robotic System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers NDT Robotic System Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers NDT Robotic System Production Market Share (2021-2026)

Table 47. World NDT Robotic System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World NDT Robotic System Production by Type (2021-2026) & (K Units)

Table 49. World NDT Robotic System Production by Type (2027-2032) & (K Units)

Table 50. World NDT Robotic System Production Value by Type (2021-2026) & (USD Million)

Table 51. World NDT Robotic System Production Value by Type (2027-2032) & (USD Million)

Table 52. World NDT Robotic System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World NDT Robotic System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World NDT Robotic System Production Value by Operation Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World NDT Robotic System Production by Operation Mode (2021-2026) & (K Units)

Table 56. World NDT Robotic System Production by Operation Mode (2027-2032) & (K Units)

Table 57. World NDT Robotic System Production Value by Operation Mode (2021-2026) & (USD Million)

Table 58. World NDT Robotic System Production Value by Operation Mode (2027-2032) & (USD Million)

Table 59. World NDT Robotic System Average Price by Operation Mode (2021-2026) & (K US\$/Unit)

Table 60. World NDT Robotic System Average Price by Operation Mode (2027-2032) & (K US\$/Unit)

Table 61. World NDT Robotic System Production Value by Power Supply, (USD Million), 2021 & 2025 & 2032

Table 62. World NDT Robotic System Production by Power Supply (2021-2026) & (K Units)

Table 63. World NDT Robotic System Production by Power Supply (2027-2032) & (K Units)

Table 64. World NDT Robotic System Production Value by Power Supply (2021-2026) & (USD Million)

Table 65. World NDT Robotic System Production Value by Power Supply (2027-2032)

& (USD Million)

Table 66. World NDT Robotic System Average Price by Power Supply (2021-2026) & (K US\$/Unit)

Table 67. World NDT Robotic System Average Price by Power Supply (2027-2032) & (K US\$/Unit)

Table 68. World NDT Robotic System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World NDT Robotic System Production by Application (2021-2026) & (K Units)

Table 70. World NDT Robotic System Production by Application (2027-2032) & (K Units)

Table 71. World NDT Robotic System Production Value by Application (2021-2026) & (USD Million)

Table 72. World NDT Robotic System Production Value by Application (2027-2032) & (USD Million)

Table 73. World NDT Robotic System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World NDT Robotic System 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 NDT Robotic System Product and Services

Table 78. Waygate Technologies NDT Robotic System Production (K 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. Eddyfi Technologies Basic Information, Manufacturing Base and Competitors

Table 82. Eddyfi Technologies Major Business

Table 83. Eddyfi Technologies NDT Robotic System Product and Services

Table 84. Eddyfi Technologies NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Eddyfi Technologies Recent Developments/Updates

Table 86. Eddyfi Technologies Competitive Strengths & Weaknesses

Table 87. Voliro Basic Information, Manufacturing Base and Competitors

Table 88. Voliro Major Business

Table 89. Voliro NDT Robotic System Product and Services

- Table 90. Voliro NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Voliro Recent Developments/Updates
- Table 92. Voliro Competitive Strengths & Weaknesses
- Table 93. Gecko Robotics Basic Information, Manufacturing Base and Competitors
- Table 94. Gecko Robotics Major Business
- Table 95. Gecko Robotics NDT Robotic System Product and Services
- Table 96. Gecko Robotics NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Gecko Robotics Recent Developments/Updates
- Table 98. Gecko Robotics Competitive Strengths & Weaknesses
- Table 99. Tecnitest Ingenieros Basic Information, Manufacturing Base and Competitors
- Table 100. Tecnitest Ingenieros Major Business
- Table 101. Tecnitest Ingenieros NDT Robotic System Product and Services
- Table 102. Tecnitest Ingenieros NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Tecnitest Ingenieros Recent Developments/Updates
- Table 104. Tecnitest Ingenieros Competitive Strengths & Weaknesses
- Table 105. Innerspec Technologies Basic Information, Manufacturing Base and Competitors
- Table 106. Innerspec Technologies Major Business
- Table 107. Innerspec Technologies NDT Robotic System Product and Services
- Table 108. Innerspec Technologies NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Innerspec Technologies Recent Developments/Updates
- Table 110. Innerspec Technologies Competitive Strengths & Weaknesses
- Table 111. TSC Subsea Basic Information, Manufacturing Base and Competitors
- Table 112. TSC Subsea Major Business
- Table 113. TSC Subsea NDT Robotic System Product and Services
- Table 114. TSC Subsea NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. TSC Subsea Recent Developments/Updates
- Table 116. TSC Subsea Competitive Strengths & Weaknesses
- Table 117. Sonomatic Basic Information, Manufacturing Base and Competitors
- Table 118. Sonomatic Major Business
- Table 119. Sonomatic NDT Robotic System Product and Services

Table 120. Sonomatic NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Sonomatic Recent Developments/Updates

Table 122. Sonomatic Competitive Strengths & Weaknesses

Table 123. TPAC Basic Information, Manufacturing Base and Competitors

Table 124. TPAC Major Business

Table 125. TPAC NDT Robotic System Product and Services

Table 126. TPAC NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. TPAC Recent Developments/Updates

Table 128. TPAC Competitive Strengths & Weaknesses

Table 129. Evident Basic Information, Manufacturing Base and Competitors

Table 130. Evident Major Business

Table 131. Evident NDT Robotic System Product and Services

Table 132. Evident NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Evident Recent Developments/Updates

Table 134. Evident Competitive Strengths & Weaknesses

Table 135. Guangzhou Doppler Electronic Technologies Basic Information, Manufacturing Base and Competitors

Table 136. Guangzhou Doppler Electronic Technologies Major Business

Table 137. Guangzhou Doppler Electronic Technologies NDT Robotic System Product and Services

Table 138. Guangzhou Doppler Electronic Technologies NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Guangzhou Doppler Electronic Technologies Recent Developments/Updates

Table 140. Guangzhou Doppler Electronic Technologies Competitive Strengths & Weaknesses

Table 141. Beijing Polaris Cscan Technology Basic Information, Manufacturing Base and Competitors

Table 142. Beijing Polaris Cscan Technology Major Business

Table 143. Beijing Polaris Cscan Technology NDT Robotic System Product and Services

Table 144. Beijing Polaris Cscan Technology NDT Robotic System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Beijing Polaris Cscan Technology Recent Developments/Updates

Table 146. Beijing Polaris Cscan Technology Competitive Strengths & Weaknesses

Table 147. Global Key Players of NDT Robotic System Upstream (Raw Materials)

Table 148. Global NDT Robotic System Typical Customers

Table 149. NDT Robotic System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. NDT Robotic System Picture

Figure 2. World NDT Robotic System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World NDT Robotic System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World NDT Robotic System Production (2021-2032) & (K Units)

Figure 5. World NDT Robotic System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World NDT Robotic System Production Value Market Share by Region (2021-2032)

Figure 7. World NDT Robotic System Production Market Share by Region (2021-2032)

Figure 8. North America NDT Robotic System Production (2021-2032) & (K Units)

Figure 9. Europe NDT Robotic System Production (2021-2032) & (K Units)

Figure 10. China NDT Robotic System Production (2021-2032) & (K Units)

Figure 11. Japan NDT Robotic System Production (2021-2032) & (K Units)

Figure 12. NDT Robotic System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 15. World NDT Robotic System Consumption Market Share by Region (2021-2032)

Figure 16. United States NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 17. China NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 18. Europe NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 19. Japan NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 20. South Korea NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 21. ASEAN NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 22. India NDT Robotic System Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of NDT Robotic System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for NDT Robotic System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for NDT Robotic System Markets in 2025

Figure 26. United States VS China: NDT Robotic System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: NDT Robotic System Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: NDT Robotic System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers NDT Robotic System Production Market Share 2025

Figure 30. China Based Manufacturers NDT Robotic System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers NDT Robotic System Production Market Share 2025

Figure 32. World NDT Robotic System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World NDT Robotic System Production Value Market Share by Type in 2025

Figure 34. Wheel Inspection Robot

Figure 35. Tracked Inspection Robot

Figure 36. Others

Figure 37. World NDT Robotic System Production Market Share by Type (2021-2032)

Figure 38. World NDT Robotic System Production Value Market Share by Type (2021-2032)

Figure 39. World NDT Robotic System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World NDT Robotic System Production Value by Operation Mode, (USD Million), 2021 & 2025 & 2032

Figure 41. World NDT Robotic System Production Value Market Share by Operation Mode in 2025

Figure 42. Manual Remote-controlled

Figure 43. Semi-autonomous

Figure 44. Fully Automated

Figure 45. World NDT Robotic System Production Market Share by Operation Mode (2021-2032)

Figure 46. World NDT Robotic System Production Value Market Share by Operation Mode (2021-2032)

Figure 47. World NDT Robotic System Average Price by Operation Mode (2021-2032) & (K US\$/Unit)

Figure 48. World NDT Robotic System Production Value by Power Supply, (USD Million), 2021 & 2025 & 2032

Figure 49. World NDT Robotic System Production Value Market Share by Power Supply in 2025

Figure 50. Tethered Power

Figure 51. Battery-powered

Figure 52. Hybrid Power

Figure 53. World NDT Robotic System Production Market Share by Power Supply (2021-2032)

Figure 54. World NDT Robotic System Production Value Market Share by Power Supply (2021-2032)

Figure 55. World NDT Robotic System Average Price by Power Supply (2021-2032) & (K US\$/Unit)

Figure 56. World NDT Robotic System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World NDT Robotic System Production Value Market Share by Application in 2025

Figure 58. Oil and Gas Industry

Figure 59. Water Industry

Figure 60. Others

Figure 61. World NDT Robotic System Production Market Share by Application (2021-2032)

Figure 62. World NDT Robotic System Production Value Market Share by Application (2021-2032)

Figure 63. World NDT Robotic System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. NDT Robotic System Industry Chain

Figure 65. NDT Robotic System Procurement Model

Figure 66. NDT Robotic System Sales Model

Figure 67. NDT Robotic System Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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