

North America Oil & Gas Inspection Robotics Market 2022-2032 by Component (Hardware, Software, Services), Robot Type (ROVs, AUVs, UAVs, UGVs, Smart PIGS, Others), Application (Pipelines, Storage Tanks, Platforms, Rigs, Others), and Country: Trend Forecast and Growth Opportunity

<https://marketpublishers.com/r/N80C0309BB4AEN.html>

Date: September 2023

Pages: 110

Price: US\$ 2,006.00 (Single User License)

ID: N80C0309BB4AEN

Abstracts

North America oil & gas inspection robotics market is projected to grow by 14.6% annually in the forecast period and reach \$1.32 billion by 2032, driven by the rising energy demand, increasing offshore exploration and production, and the growing adoption of inspection robots in oil & gas industry.

Highlighted with 24 tables and 43 figures, this 110-page report “North America Oil & Gas Inspection Robotics Market 2022-2032 by Component (Hardware, Software, Services), Robot Type (ROVs, AUVs, UAVs, UGVs, Smart PIGS, Others), Application (Pipelines, Storage Tanks, Platforms, Rigs, Others), and Country: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire North America oil & gas inspection robotics market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2020-2022 and provides forecast from 2023 till 2032 with 2022 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year, and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of North America market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify North America oil & gas inspection robotics market in every aspect of the classification from perspectives of Component, Robot Type, Application, and Country.

Based on Component, the North America market is segmented into the following sub-markets with annual revenue (\$ mn) for 2022-2032 included in each section.

Hardware

Imaging System

Automation Systems

Steering and Positioning

Navigation System

Energy and Propulsion

Other Hardware

Software

Services

Training

Maintenance

Consulting

Based on Robot Type, the North America market is segmented into the following sub-markets with annual revenue (\$ mn) for 2022-2032 included in each section.

ROVs

AUVs

UAVs

UGVs

Smart PIGS

Other Robot Types

By Application, the North America market is segmented into the following sub-markets with annual revenue (\$ mn) for 2022-2032 included in each section.

Oil and Gas Pipelines

Oil Storage Tanks

Platforms

Rigs

Other Applications

Geographically, the following national/local markets are fully investigated:

U.S.

Canada

Mexico

For each key country, detailed analysis and data for annual revenue (\$ mn) are available for 2022-2032. The breakdown of national markets by Component, Robot Type, and Application over the forecast years are also included.

The report also covers the current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

ABB Ltd.

AeroVironment, Inc.

Alstom Inspection Robots

Cyberhawk Innovations Ltd.

ECA Group

Flyability SA

FMC Technologies Inc.

Honeybee Robotics

Hydrovision Ltd.

IKM Subsea AS

ING Robotic Aviation

International Submarine Engineering (ISE) Ltd.

Inuktun Services Ltd.

MISTRAS Group Inc.

OC Robotics

Seegrid

Sky-Futures

VDOS

(Please note: The report will be updated before delivery so that the latest historical year is the base year, and the forecast covers at least 5 years over the base year.)

Contents

1 INTRODUCTION 7

- 1.1 Industry Definition and Research Scope 7
 - 1.1.1 Industry Definition 7
 - 1.1.2 Research Scope 8
- 1.2 Research Methodology 11
 - 1.2.1 Overview of Market Research Methodology 11
 - 1.2.2 Market Assumption 12
 - 1.2.3 Secondary Data 12
 - 1.2.4 Primary Data 12
 - 1.2.5 Data Filtration and Model Design 13
 - 1.2.6 Market Size/Share Estimation 14
 - 1.2.7 Research Limitations 15
- 1.3 Executive Summary 16

2 MARKET OVERVIEW AND DYNAMICS 18

- 2.1 Market Size and Forecast 18
 - 2.1.1 Impact of COVID-19 on World Economy 19
 - 2.1.2 Impact of COVID-19 on the Market 22
 - 2.1.3 Impact of Russia-Ukraine Conflict: War Slows Economic Recovery 24
- 2.2 Major Growth Drivers 28
- 2.3 Market Restraints and Challenges 33
- 2.4 Emerging Opportunities and Market Trends 36
- 2.5 Porter's Fiver Forces Analysis 40

3 SEGMENTATION OF NORTH AMERICA MARKET BY COMPONENT 44

- 3.1 Market Overview by Component 44
- 3.2 Hardware 46
 - 3.2.1 Imaging System 48
 - 3.2.2 Automation Systems 49
 - 3.2.3 Steering and Positioning 50
 - 3.2.4 Navigation System 51
 - 3.2.5 Energy and Propulsion 52
 - 3.2.6 Other Hardware 53
- 3.3 Software 54

3.4 Services 55

4 SEGMENTATION OF NORTH AMERICA MARKET BY ROBOT TYPE 57

4.1 Market Overview by Robot Type 57

4.2 ROVs 59

4.3 AUVs 61

4.4 UAVs 62

4.5 UGVs 63

4.6 Smart PIGS 64

4.7 Other Robot Types 65

5 SEGMENTATION OF NORTH AMERICA MARKET BY APPLICATION 66

5.1 Market Overview by Application 66

5.2 Oil and Gas Pipelines 68

5.3 Oil Storage Tanks 69

5.4 Platforms 70

5.5 Rigs 71

5.6 Other Applications 72

6 NORTH AMERICA MARKET 2022-2032 BY COUNTRY 73

6.1 Overview of North America Market 73

6.2 U.S. 76

6.3 Canada 79

6.4 Mexico 81

7 COMPETITIVE LANDSCAPE 83

7.1 Overview of Key Vendors 83

7.2 New Product Launch, Partnership, Investment, and M&A 86

7.3 Company Profiles 87

ABB Ltd. 87

AeroVironment, Inc. 89

Alstom Inspection Robots 92

Cyberhawk Innovations Ltd. 93

ECA Group 94

Flyability SA 97

| | |
|--|-----|
| FMC Technologies Inc. | 98 |
| Honeybee Robotics | 99 |
| Hydrovision Ltd. | 100 |
| IKM Subsea AS | 101 |
| ING Robotic Aviation | 102 |
| International Submarine Engineering (ISE) Ltd. | 103 |
| Inuktun Services Ltd. | 104 |
| MISTRAS Group Inc. | 105 |
| OC Robotics | 106 |
| Seegrid | 107 |
| Sky-Futures | 108 |
| VDOS | 109 |
| RELATED REPORTS | 110 |

List Of Tables

LIST OF TABLES:

Table 1. Snapshot of North America Oil & Gas Inspection Robotics Market in Balanced Perspective, 2022-2032 17

Table 2. World Economic Outlook, 2021-2031 20

Table 3. World Economic Outlook, 2021-2023 21

Table 4. Scenarios for Economic Impact of Ukraine Crisis 25

Table 5. Main Product Trends and Market Opportunities in North America Oil & Gas Inspection Robotics Market 36

Table 6. North America Oil & Gas Inspection Robotics Market by Component, 2022-2032, \$ mn 44

Table 7. North America Oil & Gas Inspection Robotics Market: Hardware by Type, 2022-2032, \$ mn 47

Table 8. North America Oil & Gas Inspection Robotics Market: Services by Type, 2022-2032, \$ mn 56

Table 9. North America Oil & Gas Inspection Robotics Market by Robot Type, 2022-2032, \$ mn 57

Table 10. Classifications of ROVs by Type 60

Table 11. North America Oil & Gas Inspection Robotics Market by Application, 2022-2032, \$ mn 66

Table 12. North America Oil & Gas Inspection Robotics Market by Country, 2022-2032, \$ mn 74

Table 13. U.S. Oil & Gas Inspection Robotics Market by Component, 2022-2032, \$ mn 78

Table 14. U.S. Oil & Gas Inspection Robotics Market by Robot Type, 2022-2032, \$ mn 78

Table 15. U.S. Oil & Gas Inspection Robotics Market by Application, 2022-2032, \$ mn 78

Table 16. Canada Oil & Gas Inspection Robotics Market by Component, 2022-2032, \$ mn 80

Table 17. Canada Oil & Gas Inspection Robotics Market by Robot Type, 2022-2032, \$ mn 80

Table 18. Canada Oil & Gas Inspection Robotics Market by Application, 2022-2032, \$ mn 80

Table 19. Mexico Oil & Gas Inspection Robotics Market by Component, 2022-2032, \$ mn 82

Table 20. Mexico Oil & Gas Inspection Robotics Market by Robot Type, 2022-2032, \$

mn 82

Table 21. Mexico Oil & Gas Inspection Robotics Market by Application, 2022-2032, \$

mn 82

Table 22. ABB Ltd.: Company Snapshot 87

Table 23. ABB Ltd.: Business Segmentation 88

Table 24. ABB Ltd.: Product Portfolio 88

List Of Figures

LIST OF FIGURES:

- Figure 1. Research Method Flow Chart 11
- Figure 2. Bottom-up Approach and Top-down Approach for Market Estimation 14
- Figure 3. North America Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2022-2032 16
- Figure 4. North America Oil & Gas Inspection Robotics Market, 2022-2032, \$ mn 18
- Figure 5. Impact of COVID-19 on Business 22
- Figure 6. Primary Drivers and Impact Factors of North America Oil & Gas Inspection Robotics Market 28
- Figure 7. World Crude Oil Production, 2000-2021, million tons 31
- Figure 8. World Gas Production, 1990-2021, bcm 32
- Figure 9. Primary Restraints and Impact Factors of North America Oil & Gas Inspection Robotics Market 33
- Figure 10. Investment Opportunity Analysis 37
- Figure 11. Porter's Five Forces Analysis of North America Oil & Gas Inspection Robotics Market 40
- Figure 12. Breakdown of North America Oil & Gas Inspection Robotics Market by Component, 2022-2032, % of Revenue 45
- Figure 13. North America Addressable Market Cap in 2023-2032 by Component, Value (\$ mn) and Share (%) 45
- Figure 14. North America Oil & Gas Inspection Robotics Market by Component: Hardware, 2022-2032, \$ mn 46
- Figure 15. North America Oil & Gas Inspection Robotics Market by Hardware: Imaging System, 2022-2032, \$ mn 48
- Figure 16. North America Oil & Gas Inspection Robotics Market by Hardware: Automation Systems, 2022-2032, \$ mn 49
- Figure 17. North America Oil & Gas Inspection Robotics Market by Hardware: Steering and Positioning, 2022-2032, \$ mn 50
- Figure 18. North America Oil & Gas Inspection Robotics Market by Hardware: Navigation System, 2022-2032, \$ mn 51
- Figure 19. North America Oil & Gas Inspection Robotics Market by Hardware: Energy and Propulsion, 2022-2032, \$ mn 52
- Figure 20. North America Oil & Gas Inspection Robotics Market by Hardware: Other Hardware, 2022-2032, \$ mn 53
- Figure 21. North America Oil & Gas Inspection Robotics Market by Component: Software, 2022-2032, \$ mn 54

Figure 22. North America Oil & Gas Inspection Robotics Market by Component: Services, 2022-2032, \$ mn 55

Figure 23. Breakdown of North America Oil & Gas Inspection Robotics Market by Robot Type, 2022-2032, % of Sales Revenue 58

Figure 24. North America Addressable Market Cap in 2023-2032 by Robot Type, Value (\$ mn) and Share (%) 58

Figure 25. North America Oil & Gas Inspection Robotics Market by Robot Type: ROVs, 2022-2032, \$ mn 59

Figure 26. North America Oil & Gas Inspection Robotics Market by Robot Type: AUVs, 2022-2032, \$ mn 61

Figure 27. North America Oil & Gas Inspection Robotics Market by Robot Type: UAVs, 2022-2032, \$ mn 62

Figure 28. North America Oil & Gas Inspection Robotics Market by Robot Type: UGVs, 2022-2032, \$ mn 63

Figure 29. North America Oil & Gas Inspection Robotics Market by Robot Type: Smart PIGS, 2022-2032, \$ mn 64

Figure 30. North America Oil & Gas Inspection Robotics Market by Robot Type: Other Robot Types, 2022-2032, \$ mn 65

Figure 31. Breakdown of North America Oil & Gas Inspection Robotics Market by Application, 2022-2032, % of Sales Revenue 67

Figure 32. North America Addressable Market Cap in 2023-2032 by Application, Value (\$ mn) and Share (%) 67

Figure 33. North America Oil & Gas Inspection Robotics Market by Application: Oil and Gas Pipelines, 2022-2032, \$ mn 68

Figure 34. North America Oil & Gas Inspection Robotics Market by Application: Oil Storage Tanks, 2022-2032, \$ mn 69

Figure 35. North America Oil & Gas Inspection Robotics Market by Application: Platforms, 2022-2032, \$ mn 70

Figure 36. North America Oil & Gas Inspection Robotics Market by Application: Rigs, 2022-2032, \$ mn 71

Figure 37. North America Oil & Gas Inspection Robotics Market by Application: Other Applications, 2022-2032, \$ mn 72

Figure 38. Breakdown of North America Oil & Gas Inspection Robotics Market by Country, 2022 and 2032, % of Revenue 74

Figure 39. Contribution to North America 2023-2032 Cumulative Market by Country, Value (\$ mn) and Share (%) 75

Figure 40. U.S. Oil & Gas Inspection Robotics Market, 2022-2032, \$ mn 77

Figure 41. Canada Oil & Gas Inspection Robotics Market, 2022-2032, \$ mn 79

Figure 42. Oil & Gas Inspection Robotics Market in Mexico, 2022-2032, \$ mn 81

Figure 43. Growth Stage of North America Oil & Gas Inspection Robotics Industry over the Forecast Period 83

I would like to order

Product name: North America Oil & Gas Inspection Robotics Market 2022-2032 by Component (Hardware, Software, Services), Robot Type (ROVs, AUVs, UAVs, UGVs, Smart PIGS, Others), Application (Pipelines, Storage Tanks, Platforms, Rigs, Others), and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/N80C0309BB4AEN.html>

Price: US\$ 2,006.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N80C0309BB4AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970