

Asia Pacific Unmanned Underwater Vehicles (UUVs) Market 2022-2032 by Vehicle Type (ROVs, AUVs), System (Chassis, Sensors, Payloads, Navigation, Energy), Propulsion (Diesel/Gasoline, Hybrid, Electric, Others), Application (Commercial, Scientific Research, Defense & Security, Others), and Country: Trend Forecast and Growth Opportunity

<https://marketpublishers.com/r/A718F4E343CFEN.html>

Date: September 2023

Pages: 150

Price: US\$ 2,541.00 (Single User License)

ID: A718F4E343CFEN

Abstracts

Asia Pacific unmanned underwater vehicles (UUVs) market will grow by 11.9% annually with a total addressable market cap of \$15.17 billion over 2023-2032, driven by the rapid expansion in the navy and defense department of the military sector, the increasing need for autonomous underwater and remotely operated vehicles (AUVs/ROVs), extensive investments by governments in defense forces, and the widespread uptake of autonomous marine vehicles.

Highlighted with 34 tables and 67 figures, this 150-page report “Asia Pacific Unmanned Underwater Vehicles (UUVs) Market 2022-2032 by Vehicle Type (ROVs, AUVs), System (Chassis, Sensors, Payloads, Navigation, Energy), Propulsion (Diesel/Gasoline, Hybrid, Electric, Others), Application (Commercial, Scientific Research, Defense & Security, Others), and Country: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire Asia Pacific unmanned underwater vehicles (UUVs) 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 Asia Pacific 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 Asia Pacific unmanned underwater vehicles (UUVs) market in every aspect of the classification from perspectives of Vehicle Type, System, Propulsion, Application and Country.

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

ROVs

Small Vehicles

Light Work Class Vehicle

High-Capacity Vehicles

Heavy Work Class Vehicle

AUVs

Shallow AUVs

Medium AUVs

Large AUVs

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

Chassis

Sensors and Automation

Payloads

Navigation

Energy and Propulsion

Communication

Other Systems

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

Diesel/Gasoline Systems

Hybrid Systems

Electric Systems

Other Propulsion Systems

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

Commercial

Offshore Drilling

Survey & Seabed Mapping

Pipeline/Cabling/Inspection

Communication and Others

Scientific Research

Seabed Mapping & Imaging

Oceanographic Studies

Environmental Monitoring

Other Research Applications

Defense & Security

Mine Counter Measures (MCM)

Anti-Submarine Warfare (ASW)

Intelligence, Surveillance and Reconnaissance (ISR)

Security

Transportation

Other Defense Applications

Other Applications

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

Japan

China

South Korea

Australia

India

Rest of APAC (further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

For each key country, detailed analysis and data for annual revenue (\$ mn) are available for 2022-2032. The breakdown of national markets by Vehicle Type, System, 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:

Atlas Elektronik GmbH

Bluefin Robotics Corporation (General Dynamics Corporation)

Boston Engineering Corporation

Bourbon

C-Innovation

DeepOcean AS

DOF Subsea AS

ECA Group

Forum Energy Technologies

Fugro Subsea Services Ltd.

Graal Tech

Hallin Marine

Harkand Andrews Survey

Helix Energy Solutions Group Inc.

Hydromea Sa

International Submarine Engineering (ISE) Ltd.

i-Tech (Subsea 7)

Kongsberg Groups

Kystdesign AS

L3Harris Technologies

Lockheed Martin Corporation

Oceaneering International Inc.

OceanServer Technology Inc.

Perry Slingsby Systems

SAAB AB

Saipem SpA

Schilling Robotics, LLC

Soil Machine Dynamics Ltd. (SMD)

TechnipFMC PLC

Teledyne Technologies Incorporated

(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 8

- 1.1 Industry Definition and Research Scope 8
 - 1.1.1 Industry Definition 8
 - 1.1.2 Research Scope 9
- 1.2 Research Methodology 12
 - 1.2.1 Overview of Market Research Methodology 12
 - 1.2.2 Market Assumption 13
 - 1.2.3 Secondary Data 13
 - 1.2.4 Primary Data 13
 - 1.2.5 Data Filtration and Model Design 14
 - 1.2.6 Market Size/Share Estimation 15
 - 1.2.7 Research Limitations 16
- 1.3 Executive Summary 17

2 MARKET OVERVIEW AND DYNAMICS 20

- 2.1 Market Size and Forecast 20
 - 2.1.1 Impact of COVID-19 on World Economy 21
 - 2.1.2 Impact of COVID-19 on the Market 24
 - 2.1.3 Impact of Russia-Ukraine Conflict: War Slows Economic Recovery 26
- 2.2 Major Growth Drivers 30
- 2.3 Market Restraints and Challenges 37
- 2.4 Emerging Opportunities and Market Trends 40
- 2.5 Porter's Fiver Forces Analysis 44

3 SEGMENTATION OF ASIA PACIFIC MARKET BY VEHICLE TYPE 48

- 3.1 Market Overview by Vehicle Type 48
- 3.2 ROVs 50
 - 3.2.1 Small Vehicles 52
 - 3.2.2 Light Work Class Vehicle 53
 - 3.2.3 High-Capacity Vehicles 54
 - 3.2.4 Heavy Work Class Vehicle 55
- 3.3 AUVs 56
 - 3.3.1 Shallow AUVs 58
 - 3.3.2 Medium AUVs 59

3.3.3 Large AUVs 60

4 SEGMENTATION OF ASIA PACIFIC MARKET BY SYSTEM 61

4.1 Market Overview by System 61

4.2 Chassis 63

4.3 Sensors and Automation 64

4.4 Payloads 65

4.5 Navigation 66

4.6 Energy and Propulsion 67

4.7 Communication 68

4.8 Other Systems 69

5 SEGMENTATION OF ASIA PACIFIC MARKET BY PROPULSION 70

5.1 Market Overview by Propulsion 70

5.2 Diesel/Gasoline Systems 72

5.3 Hybrid Systems 73

5.4 Electric Systems 74

5.5 Other Propulsion Systems 75

6 SEGMENTATION OF ASIA PACIFIC MARKET BY APPLICATION 76

6.1 Market Overview by Application 76

6.2 Commercial 78

6.2.1 Offshore Drilling 79

6.2.2 Survey & Seabed Mapping 80

6.2.3 Pipeline/Cabling/Inspection 81

6.2.4 Communication and Others 82

6.3 Scientific Research 83

6.3.1 Seabed Mapping & Imaging 85

6.3.2 Oceanographic Studies 86

6.3.3 Environmental Monitoring 87

6.3.4 Other Research Applications 88

6.4 Defense & Security 89

6.4.1 Mine Counter Measures (MCM) 91

6.4.2 Anti-Submarine Warfare (ASW) 92

6.4.3 Intelligence, Surveillance and Reconnaissance (ISR) 93

6.4.4 Security 94

6.4.5 Transportation	95
6.4.6 Other Defense Applications	96
6.5 Other Applications	97

7 ASIA-PACIFIC MARKET 2022-2032 BY COUNTRY 98

7.1 Overview of Asia-Pacific Market	98
7.2 Japan	101
7.3 China	104
7.4 Australia	107
7.5 India	109
7.6 South Korea	111
7.7 Rest of APAC Region	113

8 COMPETITIVE LANDSCAPE 115

8.1 Overview of Key Vendors	115
8.2 New Product Launch, Partnership, Investment, and M&A	118
8.3 Company Profiles	119
Atlas Elektronik GmbH	119
Bluefin Robotics Corporation (General Dynamics Corporation)	121
Boston Engineering Corporation	122
Bourbon	123
C-Innovation	124
DeepOcean AS	125
DOF Subsea AS	126
ECA Group	127
Forum Energy Technologies	128
Fugro Subsea Services Ltd.	129
Graal Tech	130
Hallin Marine	131
Harkand Andrews Survey	132
Helix Energy Solutions Group Inc.	133
Hydromea Sa	134
International Submarine Engineering (ISE) Ltd.	135
i-Tech (Subsea 7)	136
Kongsberg Groups	137
Kystdesign AS	138
L3Harris Technologies	139

Lockheed Martin Corporation	140
Oceaneering International Inc.	141
OceanServer Technology Inc.	142
Perry Slingsby Systems	143
SAAB AB	144
Saipem SpA	145
Schilling Robotics, LLC	146
Soil Machine Dynamics Ltd. (SMD)	147
TechnipFMC PLC	148
Teledyne Technologies Incorporated	149
RELATED REPORTS	150

List Of Tables

LIST OF TABLES:

Table 1. Snapshot of Asia Pacific Unmanned Underwater Vehicles Market in Balanced Perspective, 2022-2032	18
Table 2. World Economic Outlook, 2021-2031	22
Table 3. World Economic Outlook, 2021-2023	23
Table 4. Scenarios for Economic Impact of Ukraine Crisis	27
Table 5. Main Product Trends and Market Opportunities in Asia Pacific Unmanned Underwater Vehicles Market	40
Table 6. Asia Pacific Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn	48
Table 7. Asia Pacific Unmanned Underwater Vehicles Market: ROVs by Type, 2022-2032, \$ mn	51
Table 8. Asia Pacific Unmanned Underwater Vehicles Market: AUVs by Type, 2022-2032, \$ mn	57
Table 9. Asia Pacific Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn	61
Table 10. Asia Pacific Unmanned Underwater Vehicles Market by Propulsion, 2022-2032, \$ mn	70
Table 11. Asia Pacific Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn	76
Table 12. Asia Pacific Unmanned Underwater Vehicles Market: Commercial Application by Type, 2022-2032, \$ mn	78
Table 13. Asia Pacific Unmanned Underwater Vehicles Market: Scientific Research by Type, 2022-2032, \$ mn	84
Table 14. Asia Pacific Unmanned Underwater Vehicles Market: Defense & Security by Type, 2022-2032, \$ mn	90
Table 15. APAC Unmanned Underwater Vehicles Market by Country, 2022-2032, \$ mn	99
Table 16. Japan Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn	103
Table 17. Japan Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn	103
Table 18. Japan Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn	103
Table 19. China Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn	105

Table 20. China Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn 105

Table 21. China Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn 105

Table 22. Australia Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn 108

Table 23. Australia Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn 108

Table 24. Australia Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn 108

Table 25. India Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn 110

Table 26. India Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn 110

Table 27. India Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn 110

Table 28. South Korea Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, \$ mn 112

Table 29. South Korea Unmanned Underwater Vehicles Market by System, 2022-2032, \$ mn 112

Table 30. South Korea Unmanned Underwater Vehicles Market by Application, 2022-2032, \$ mn 112

Table 31. Unmanned Underwater Vehicles Market in Rest of APAC by Country/Region, 2022-2032, \$ mn 114

Table 32. Atlas Elektronik GmbH: Company Snapshot 119

Table 33. Atlas Elektronik GmbH: Business Segmentation 120

Table 34. Atlas Elektronik GmbH: Product Portfolio 120

List Of Figures

LIST OF FIGURES:

- Figure 1. Research Method Flow Chart 12
- Figure 2. Bottom-up Approach and Top-down Approach for Market Estimation 15
- Figure 3. Asia Pacific Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2022-2032 17
- Figure 4. Asia Pacific Unmanned Underwater Vehicles Market, 2022-2032, \$ mn 20
- Figure 5. Impact of COVID-19 on Business 24
- Figure 6. Primary Drivers and Impact Factors of Asia Pacific Unmanned Underwater Vehicles Market 30
- Figure 7. World Military Expenditure by Region, 1988–2022, \$ billion 34
- Figure 8. World Crude Oil Production, 2000-2021, million tons 35
- Figure 9. World Gas Production, 1990-2021, bcm 36
- Figure 10. Primary Restraints and Impact Factors of Asia Pacific Unmanned Underwater Vehicles Market 37
- Figure 11. Investment Opportunity Analysis 41
- Figure 12. Porter's Five Forces Analysis of Asia Pacific Unmanned Underwater Vehicles Market 44
- Figure 13. Breakdown of Asia Pacific Unmanned Underwater Vehicles Market by Vehicle Type, 2022-2032, % of Revenue 49
- Figure 14. Asia Pacific Addressable Market Cap in 2023-2032 by Vehicle Type, Value (\$ mn) and Share (%) 49
- Figure 15. Asia Pacific Unmanned Underwater Vehicles Market by Vehicle Type: ROVs, 2022-2032, \$ mn 50
- Figure 16. Asia Pacific Unmanned Underwater Vehicles Market by ROVs: Small Vehicles, 2022-2032, \$ mn 52
- Figure 17. Asia Pacific Unmanned Underwater Vehicles Market by ROVs: Light Work Class Vehicle, 2022-2032, \$ mn 53
- Figure 18. Asia Pacific Unmanned Underwater Vehicles Market by ROVs: High-Capacity Vehicles, 2022-2032, \$ mn 54
- Figure 19. Asia Pacific Unmanned Underwater Vehicles Market by ROVs: Heavy Work Class Vehicle, 2022-2032, \$ mn 55
- Figure 20. Asia Pacific Unmanned Underwater Vehicles Market by Vehicle Type: AUVs, 2022-2032, \$ mn 56
- Figure 21. Asia Pacific Unmanned Underwater Vehicles Market by AUVs: Shallow AUVs, 2022-2032, \$ mn 58
- Figure 22. Asia Pacific Unmanned Underwater Vehicles Market by AUVs: Medium

AUVs, 2022-2032, \$ mn 59

Figure 23. Asia Pacific Unmanned Underwater Vehicles Market by AUVs: Large AUVs, 2022-2032, \$ mn 60

Figure 24. Breakdown of Asia Pacific Unmanned Underwater Vehicles Market by System, 2022-2032, % of Sales Revenue 62

Figure 25. Asia Pacific Addressable Market Cap in 2023-2032 by System, Value (\$ mn) and Share (%) 62

Figure 26. Asia Pacific Unmanned Underwater Vehicles Market by System: Chassis, 2022-2032, \$ mn 63

Figure 27. Asia Pacific Unmanned Underwater Vehicles Market by System: Sensors and Automation, 2022-2032, \$ mn 64

Figure 28. Asia Pacific Unmanned Underwater Vehicles Market by System: Payloads, 2022-2032, \$ mn 65

Figure 29. Asia Pacific Unmanned Underwater Vehicles Market by System: Navigation, 2022-2032, \$ mn 66

Figure 30. Asia Pacific Unmanned Underwater Vehicles Market by System: Energy and Propulsion, 2022-2032, \$ mn 67

Figure 31. Asia Pacific Unmanned Underwater Vehicles Market by System: Communication, 2022-2032, \$ mn 68

Figure 32. Asia Pacific Unmanned Underwater Vehicles Market by System: Other Systems, 2022-2032, \$ mn 69

Figure 33. Breakdown of Asia Pacific Unmanned Underwater Vehicles Market by Propulsion, 2022-2032, % of Sales Revenue 71

Figure 34. Asia Pacific Addressable Market Cap in 2023-2032 by Propulsion, Value (\$ mn) and Share (%) 71

Figure 35. Asia Pacific Unmanned Underwater Vehicles Market by Propulsion: Diesel/Gasoline Systems, 2022-2032, \$ mn 72

Figure 36. Asia Pacific Unmanned Underwater Vehicles Market by Propulsion: Hybrid Systems, 2022-2032, \$ mn 73

Figure 37. Asia Pacific Unmanned Underwater Vehicles Market by Propulsion: Electric Systems, 2022-2032, \$ mn 74

Figure 38. Asia Pacific Unmanned Underwater Vehicles Market by Propulsion: Other Propulsion Systems, 2022-2032, \$ mn 75

Figure 39. Breakdown of Asia Pacific Unmanned Underwater Vehicles Market by Application, 2022-2032, % of Revenue 77

Figure 40. Asia Pacific Addressable Market Cap in 2023-2032 by Application, Value (\$ mn) and Share (%) 77

Figure 41. Asia Pacific Unmanned Underwater Vehicles Market by Application: Commercial, 2022-2032, \$ mn 78

Figure 42. Asia Pacific Unmanned Underwater Vehicles Market by Commercial Application: Offshore Drilling, 2022-2032, \$ mn 79

Figure 43. Asia Pacific Unmanned Underwater Vehicles Market by Commercial Application: Survey & Seabed Mapping, 2022-2032, \$ mn 80

Figure 44. Asia Pacific Unmanned Underwater Vehicles Market by Commercial Application: Pipeline/Cabling/Inspection, 2022-2032, \$ mn 81

Figure 45. Asia Pacific Unmanned Underwater Vehicles Market by Commercial Application: Communication and Others, 2022-2032, \$ mn 82

Figure 46. Asia Pacific Unmanned Underwater Vehicles Market by Application: Scientific Research, 2022-2032, \$ mn 83

Figure 47. Asia Pacific Unmanned Underwater Vehicles Market by Scientific Research: Seabed Mapping & Imaging, 2022-2032, \$ mn 85

Figure 48. Asia Pacific Unmanned Underwater Vehicles Market by Scientific Research: Oceanographic Studies, 2022-2032, \$ mn 86

Figure 49. Asia Pacific Unmanned Underwater Vehicles Market by Scientific Research: Environmental Monitoring, 2022-2032, \$ mn 87

Figure 50. Asia Pacific Unmanned Underwater Vehicles Market by Scientific Research: Other Research Applications, 2022-2032, \$ mn 88

Figure 51. Asia Pacific Unmanned Underwater Vehicles Market by Application: Defense & Security, 2022-2032, \$ mn 89

Figure 52. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Mine Counter Measures (MCM), 2022-2032, \$ mn 91

Figure 53. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Anti-Submarine Warfare (ASW), 2022-2032, \$ mn 92

Figure 54. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Intelligence, Surveillance and Reconnaissance (ISR), 2022-2032, \$ mn 93

Figure 55. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Security, 2022-2032, \$ mn 94

Figure 56. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Transportation, 2022-2032, \$ mn 95

Figure 57. Asia Pacific Unmanned Underwater Vehicles Market by Defense & Security: Other Defense Applications, 2022-2032, \$ mn 96

Figure 58. Asia Pacific Unmanned Underwater Vehicles Market by Application: Other Applications, 2022-2032, \$ mn 97

Figure 59. Breakdown of APAC Unmanned Underwater Vehicles Market by Country, 2022 and 2032, % of Revenue 99

Figure 60. Contribution to APAC 2023-2032 Cumulative Market by Country, Value (\$ mn) and Share (%) 100

Figure 61. Unmanned Underwater Vehicles Market in Japan, 2022-2032, \$ mn 102

Figure 62. Unmanned Underwater Vehicles Market in China, 2022-2032, \$ mn 104

Figure 63. Unmanned Underwater Vehicles Market in Australia, 2022-2032, \$ mn 107

Figure 64. Unmanned Underwater Vehicles Market in India, 2022-2032, \$ mn 109

Figure 65. Unmanned Underwater Vehicles Market in South Korea, 2022-2032, \$ mn
111

Figure 66. Unmanned Underwater Vehicles Market in Rest of APAC, 2022-2032, \$ mn
113

Figure 67. Growth Stage of Asia Pacific Unmanned Underwater Vehicles Industry over
the Forecast Period 115

I would like to order

Product name: Asia Pacific Unmanned Underwater Vehicles (UUVs) Market 2022-2032 by Vehicle Type (ROVs, AUVs), System (Chassis, Sensors, Payloads, Navigation, Energy), Propulsion (Diesel/Gasoline, Hybrid, Electric, Others), Application (Commercial, Scientific Research, Defense & Security, Others), and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/A718F4E343CFEN.html>

Price: US\$ 2,541.00 (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/A718F4E343CFEN.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