

**Autonomous Mobile Robots Market by Offering (Hardware, Software and Services),
Payload Capacity (<100 kg, 100-500 kg, >500 kg), Navigation Technology
(Laser/LiDAR, Vision Guidance), Industry (Manufacturing, Retail, E-commerce) -
Global Forecast to 2028**

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Report description:

The autonomous mobile robots market is expected to reach USD 4.1 billion by 2028 from USD 1.8 billion in 2023, at a CAGR of 17.5% from 2023-2028. The growth of this market is attributed to the rising labor costs and the increasing requirement for productivity and productivity in logistics activities. AMRs mainly align with the principles of Industry 4.0, which majorly aims to integrate automation, and digital technologies in manufacturing. AMRs equipped with advanced sensors contribute to manufacturing systems, enabling flexible and efficient production processes.

"Laser/LiDAR segment to dominate the autonomous mobile robots market in 2023."

Laser/LiDAR (Light Detection and Ranging) technology is majorly used in Autonomous Mobile Robots for perception, mapping, and navigation purposes. LiDAR sensors enable AMRs to detect and recognize obstacles in their path accurately. By continuously scanning the environment, the LiDAR sensors provide real-time data about objects' location, size, and distance. This information enables the robot to plan safe and collision-free paths, avoiding obstacles as it moves forward.

"Hardware segment to contribute the largest share of the market during the forecast period."

Hardware components in AMRs are necessary for mobility, perception, power management, computational capabilities, connectivity, and safety. High-quality hardware elements ensure reliable and efficient operation, allowing AMRs to perform their tasks autonomously, navigate efficiently, and contribute to improved productivity and efficiency. Hardware components such as cameras, Light Detection and Ranging (LiDAR) sensors, proximity sensors, and encoders are crucial for perceiving the surroundings of AMRs. These components capture data about the environment, enabling the AMR to detect obstacles, perceive objects, and map its surroundings.

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"Asia Pacific is anticipated to grow at the highest CAGR during the forecast period."

Asia Pacific consists of some of the fastest-growing economies-such as China, Japan, and India. The market in Asia Pacific is propelled by factors such as rapid industrialization, the substantial growth of e-commerce, rising labor costs, technological advancements in warehouses, progressing logistics and warehousing sectors, and the extensive focus on Industry 4.0. These factors collectively create a favorable environment for the significant adoption of AMRs in the region, contributing to increased efficiency, productivity, and competitiveness across several industries.

The break-up of the profiles of primary participants:

-□By Company Type - Tier 1 - 45%, Tier 2 - 30%, and Tier 3 - 25%

-□By Designation - C-level Executives - 35%, Directors - 45%, and Others - 20%

-□By Region - North America - 30%, Europe - 25%, Asia Pacific - 35%, and Rest of the World - 10%

Major players in the autonomous mobile robots market include ABB (Switzerland), Omron Automation (US), Mobile Industrial Robots (Denmark), Fetch Robotics (US), OTTO Motors (Canada) and others.

Research Coverage

The report segments the autonomous mobile robots market by Offering, Payload Capacity, Navigation Technology, Industry, and Region. The report also comprehensively reviews drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall autonomous mobile robots market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of critical drivers (Rapid advancements in robotics, and artificial intelligence, growing demand for warehouse automation across several industries, emerging applications of AMRs in several industries), restraints (High initial investments, technical complexities), opportunities (Rising demand for fast and last mile deliveries, Potential growth in industry-specific applications), and challenges (integration of AMRs into existing workflows and systems, lack of standardization and interoperability) influencing the growth of the autonomous mobile robots market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the autonomous mobile robots market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the autonomous mobile robots market across various regions.

-□Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the autonomous mobile robots market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like ABB (Switzerland), Omron Automation (US), Mobile Industrial Robots (Denmark), Fetch Robotics (US), OTTO Motors (Canada).

Table of Contents:

1 □INTRODUCTION □22

1.1 □STUDY OBJECTIVES □22

1.2 □MARKET DEFINITION □22

1.3 □INCLUSIONS AND EXCLUSIONS □23

1.4 □STUDY SCOPE □23

1.4.1 □MARKETS COVERED □23

FIGURE 1 □AUTONOMOUS MOBILE ROBOTS MARKET SEGMENTATION □23

1.4.2 □REGIONAL SCOPE □24

1.4.3 □YEARS CONSIDERED □24

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1.5	CURRENCY CONSIDERED	25
1.6	STAKEHOLDERS	25
1.7	RECESSION IMPACT	25
2	RESEARCH METHODOLOGY	26
2.1	RESEARCH DATA	26
FIGURE 2	AUTONOMOUS MOBILE ROBOTS MARKET: RESEARCH DESIGN	26
2.1.1	SECONDARY DATA	27
2.1.1.1	List of major secondary sources	27
2.1.1.2	Key data from secondary sources	27
2.1.2	PRIMARY DATA	27
2.1.2.1	Primary interviews with experts	28
2.1.2.2	Breakdown of primaries	28
2.1.2.3	Key data from primary sources	28
2.1.3	SECONDARY AND PRIMARY RESEARCH	29
2.1.3.1	Key industry insights	30
2.2	MARKET SIZE ESTIMATION	30
2.2.1	BOTTOM-UP APPROACH	31
2.2.1.1	Approach to derive market size using bottom-up analysis	31
FIGURE 3	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	31
2.2.2	TOP-DOWN APPROACH	32
2.2.2.1	Approach to derive market size using top-down analysis	32
FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	32
FIGURE 5	MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE): REVENUE GENERATED BY KEY PLAYERS FROM AUTONOMOUS MOBILE ROBOTS	33
2.3	MARKET BREAKDOWN AND DATA TRIANGULATION	34
FIGURE 6	MARKET BREAKDOWN AND DATA TRIANGULATION	34
2.4	RESEARCH ASSUMPTIONS	35
2.5	PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON AUTONOMOUS MOBILE ROBOTS MARKET	35
2.6	RESEARCH LIMITATIONS	36
2.7	RISK ASSESSMENT	36
3	EXECUTIVE SUMMARY	37
FIGURE 7	AUTONOMOUS MOBILE ROBOTS MARKET, 2019?2028 (USD MILLION)	37
FIGURE 8	LASER/LIDAR SEGMENT HELD LARGER MARKET SHARE IN 2022	38
FIGURE 9	HARDWARE SEGMENT TO ACCOUNT FOR LARGER MARKET SIZE DURING FORECAST PERIOD	38
FIGURE 10	MANUFACTURING SEGMENT CAPTURED LARGEST MARKET SIZE IN 2022	39
FIGURE 11	NORTH AMERICA ACCOUNTED FOR LARGEST MARKET SHARE IN 2022	39
4	PREMIUM INSIGHTS	41
4.1	ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN AUTONOMOUS MOBILE ROBOTS MARKET	41
FIGURE 12	GROWING FOCUS ON WAREHOUSE AUTOMATION TO SUPPORT MARKET GROWTH	41
4.2	AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING	41
FIGURE 13	HARDWARE SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2022	41
4.3	AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY	42
FIGURE 14	100?500 KG SEGMENT TO HOLD LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD	42
4.4	AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY	42
FIGURE 15	MANUFACTURING INDUSTRY TO CAPTURE LARGEST SHARE OF AUTONOMOUS MOBILE ROBOTS MARKET IN 2023	42
4.5	AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION	43
FIGURE 16	AUTONOMOUS MOBILE ROBOTS MARKET IN CHINA TO GROW AT HIGHEST CAGR FROM 2023 TO 2028	43

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5	MARKET OVERVIEW	44
5.1	INTRODUCTION	44
5.2	MARKET DYNAMICS	44
	FIGURE 17 AUTONOMOUS MOBILE ROBOTS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	44
5.2.1	DRIVERS	45
5.2.1.1	Rapid advancements in robotics and artificial intelligence	45
5.2.1.2	Rising demand for warehouse automation	45
	FIGURE 18 AUTONOMOUS MOBILE ROBOTS MARKET: IMPACT ANALYSIS OF DRIVERS AND OPPORTUNITIES	46
5.2.2	RESTRAINTS	46
5.2.2.1	High initial cost associated with implementation of autonomous mobile robots	46
5.2.2.2	Need for proper infrastructure and constant research and innovation to enhance system capability	47
	FIGURE 19 AUTONOMOUS MOBILE ROBOTS MARKET: IMPACT ANALYSIS OF RESTRAINTS AND CHALLENGES	47
5.2.3	OPPORTUNITIES	47
5.2.3.1	Rising demand for fast and efficient last-mile delivery	47
5.2.3.2	Potential growth in industry-specific applications	48
	FIGURE 20 PERCENTAGE OF E-COMMERCE SALES OUT OF TOTAL RETAIL SALES IN US, 2019-2022	48
5.2.4	CHALLENGES	49
5.2.4.1	Integration of autonomous mobile robots into existing workflows and systems	49
5.2.4.2	Lack of standardization and interoperability issues in autonomous mobile robots	49
5.3	VALUE CHAIN ANALYSIS	50
	FIGURE 21 AUTONOMOUS MOBILE ROBOTS MARKET: VALUE CHAIN ANALYSIS	50
5.4	ECOSYSTEM MAPPING	51
	FIGURE 22 AUTONOMOUS MOBILE ROBOTS MARKET: ECOSYSTEM ANALYSIS	51
	TABLE 1 ROLE OF PLAYERS IN AUTONOMOUS MOBILE ROBOTS ECOSYSTEM	52
5.5	PRICING ANALYSIS	53
5.5.1	AVERAGE SELLING PRICE (ASP) TREND	53
	TABLE 2 AVERAGE SELLING PRICE OF AUTONOMOUS MOBILE ROBOTS WITH VARIOUS PAYLOAD CAPACITIES	53
	TABLE 3 AVERAGE SELLING PRICE OF AUTONOMOUS MOBILE ROBOTS, BY REGION, 2022	53
	FIGURE 23 AVERAGE SELLING PRICE OF AUTONOMOUS MOBILE ROBOTS, 2019-2028 (USD)	54
5.5.2	PRICING ANALYSIS OF AUTONOMOUS MOBILE ROBOTS OFFERED BY KEY PLAYERS	54
	FIGURE 24 AVERAGE SELLING PRICE OF AUTONOMOUS MOBILE ROBOTS BASED ON PAYLOAD CAPACITY, BY COMPANY	54
	TABLE 4 AVERAGE SELLING PRICE OF AUTONOMOUS MOBILE ROBOTS BASED ON PAYLOAD CAPACITY, BY COMPANY (USD)	55
5.6	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS	55
	FIGURE 25 REVENUE SHIFT AND NEW REVENUE POCKETS FOR PLAYERS IN AUTONOMOUS MOBILE ROBOTS MARKET	55
5.7	TECHNOLOGY ANALYSIS	56
5.7.1	SIMULTANEOUS LOCALIZATION AND MAPPING (SLAM)	56
5.7.2	LIDAR AND 3D MAPPING	56
5.7.3	PREDICTIVE ANALYTICS	56
5.7.4	ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML)	56
5.7.5	HUMAN-ROBOT INTERACTION (HRI)	57
5.7.6	WIRELESS COMMUNICATION	57
5.7.7	INDUSTRY 4.0	57
5.8	PORTER'S FIVE FORCES ANALYSIS	57
	FIGURE 26 AUTONOMOUS MOBILE ROBOTS MARKET: PORTER'S FIVE FORCES ANALYSIS	58
	TABLE 5 AUTONOMOUS MOBILE ROBOTS MARKET: PORTER'S FIVE FORCES ANALYSIS	58
5.9	KEY STAKEHOLDERS AND BUYING CRITERIA	60
5.9.1	KEY STAKEHOLDERS IN BUYING PROCESS	60

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FIGURE 27 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 INDUSTRIES 60

TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 INDUSTRIES (%) 60

5.9.2 BUYING CRITERIA 61

FIGURE 28 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES 61

TABLE 7 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES 61

5.10 CASE STUDY ANALYSIS 62

TABLE 8 DORMAN PRODUCTS DEPLOYED AUTONOMOUS MOBILE ROBOTS FROM FETCH ROBOTICS TO REDUCE TRAVEL TIME AND UTILIZE IT IN VALUED TASKS 62

TABLE 9 SADDLE CREEK ADOPTED AUTONOMOUS MOBILE ROBOTS FROM LOCUS ROBOTICS TO FULFILL INCREASED ORDERS FOR APPAREL AND SUPPLIES DURING COVID 62

TABLE 10 OTTO MOTORS PROVIDED AUTONOMOUS MOBILE ROBOTS TO EFFICIENTLY AUTOMATE MATERIAL FLOW IN PRODUCTION LINES AND STORAGE AREAS 62

TABLE 11 ZF FRIEDRICHSHAFEN DEPLOYED AUTONOMOUS MOBILE ROBOTS FROM LOCUS ROBOTICS TO AUTONOMOUSLY TRANSPORT CUSTOMIZED AUTOMOTIVE PARTS AND IMPROVE PRODUCTION EFFICIENCY 63

TABLE 12 JOHN DEERE IMPLEMENTED AUTONOMOUS MOBILE ROBOTS FROM AETHON TO IMPROVE PRODUCTION EFFICIENCY AND REDUCE MANUFACTURING COST 63

5.11 TRADE ANALYSIS 64

5.11.1 IMPORT SCENARIO 64

FIGURE 29 IMPORT DATA, BY KEY COUNTRY, 2018-2022 (USD MILLION) 64

5.11.2 EXPORT SCENARIO 65

FIGURE 30 EXPORT DATA, BY KEY COUNTRY, 2018-2022 (USD MILLION) 65

5.12 PATENT ANALYSIS 65

FIGURE 31 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS 65

TABLE 13 TOP 20 PATENT OWNERS IN US IN LAST 10 YEARS 66

FIGURE 32 NUMBER OF PATENTS GRANTED FROM 2013 TO 2022 66

TABLE 14 KEY PATENTS RELATED TO AUTONOMOUS MOBILE ROBOTS 67

5.13 KEY CONFERENCES AND EVENTS, 2023-2025 68

TABLE 15 AUTONOMOUS MOBILE ROBOTS MARKET: CONFERENCES AND EVENTS 68

5.14 REGULATORY LANDSCAPE 69

5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 69

TABLE 16 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 69

TABLE 17 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 70

TABLE 18 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 70

TABLE 19 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 71

5.14.2 STANDARDS AND REGULATIONS RELATED TO AUTONOMOUS MOBILE ROBOTS MARKET 71

5.14.3 SAFETY STANDARDS FOR AUTONOMOUS MOBILE ROBOTS 72

TABLE 20 SAFETY STANDARDS FOR AUTONOMOUS MOBILE ROBOTS 72

6 MAJOR TYPES OF AUTONOMOUS MOBILE ROBOTS 73

6.1 INTRODUCTION 73

6.2 GOODS-TO-PERSON ROBOTS 73

6.3 PALLET-HANDLING ROBOTS 73

6.4 SELF-DRIVING FORKLIFTS 73

6.5 AUTONOMOUS INVENTORY ROBOTS 74

7 AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING 75

7.1 INTRODUCTION 76

FIGURE 33 AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING 76

FIGURE 34 HARDWARE SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE IN 2023 76

TABLE 21 AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 77

TABLE 22 AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 77

7.2 HARDWARE 77

7.2.1 BATTERIES 77

7.2.1.1 Rising demand for autonomous mobile robots with rechargeable batteries to drive segmental growth 77

7.2.2 SENSORS 78

7.2.2.1 Increasing demand for autonomous mobile robots with multiple functionalities to boost market 78

7.2.3 ACTUATORS 78

7.2.3.1 Use of actuators to enable communication between robots and surrounding environment 78

7.2.4 OTHERS 78

7.3 SOFTWARE & SERVICES 79

7.3.1 IMPLEMENTATION OF ADVANCED ALGORITHMS FOR SMOOTH FUNCTIONING OF AUTONOMOUS MOBILE ROBOTS 79

8 AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY 80

8.1 INTRODUCTION 81

FIGURE 35 AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY 81

FIGURE 36 >500 KG SEGMENT TO EXHIBIT HIGHEST CAGR FROM 2023 TO 2028 81

TABLE 23 AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 82

TABLE 24 AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 82

8.2 <100 KG 82

8.2.1 RISING DEMAND FOR AUTONOMOUS MOBILE ROBOTS WITH PAYLOAD CAPACITY UNDER <100 KG IN WAREHOUSING AND LOGISTICS OPERATIONS TO DRIVE MARKET 82

TABLE 25 <100 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 83

TABLE 26 <100 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 83

TABLE 27 <100 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 84

TABLE 28 <100 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 84

8.3 100-500 KG 84

8.3.1 INCREASED DEPLOYMENT OF AUTONOMOUS MOBILE ROBOTS WITH PAYLOAD CAPACITY OF 100?500 KG IN MANUFACTURING AND HEALTHCARE APPLICATIONS TO BOOST MARKET GROWTH 84

TABLE 29 100?500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 85

TABLE 30 100?500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 85

TABLE 31 100?500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 86

TABLE 32 100?500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 86

8.4 >500 KG 86

8.4.1 INCREASING ADOPTION OF AUTONOMOUS MOBILE ROBOTS WITH PAYLOAD CAPACITY ABOVE 500 KG TO CARRY HEAVY-DUTY LOADS IN MANUFACTURING FACILITIES TO DRIVE MARKET 86

TABLE 33 >500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 87

TABLE 34 >500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 87

TABLE 35 >500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 88

TABLE 36 >500 KG: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 88

9 AUTONOMOUS MOBILE ROBOTS MARKET, BY NAVIGATION TECHNOLOGY 89

9.1 INTRODUCTION 90

FIGURE 37 AUTONOMOUS MOBILE ROBOTS MARKET, BY NAVIGATION TECHNOLOGY 90

FIGURE 38 VISION GUIDANCE SEGMENT TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD 90

TABLE 37 AUTONOMOUS MOBILE ROBOTS MARKET, BY NAVIGATION TECHNOLOGY, 2019-2022 (USD MILLION) 91

TABLE 38 AUTONOMOUS MOBILE ROBOTS MARKET, BY NAVIGATION TECHNOLOGY, 2023-2028 (USD MILLION) 91

9.2 LASER/LIDAR 91

9.2.1 USE OF LASER/LIDAR TECHNOLOGY IN AUTONOMOUS MOBILE ROBOTS TO ENABLE DETECTION AND IDENTIFICATION OF

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OBSTACLES DURING NAVIGATION TO BOOST GROWTH 91

9.3 VISION GUIDANCE 92

9.3.1 IMPLEMENTATION OF VISION GUIDANCE TECHNOLOGY TO FACILITATE INTERPRETATION OF HUMAN GESTURES TO DRIVE MARKET 92

9.4 OTHERS 92

10 AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY 93

10.1 INTRODUCTION 94

FIGURE 39 AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY 94

FIGURE 40 E-COMMERCE SEGMENT TO EXHIBIT HIGHEST CAGR IN AUTONOMOUS MOBILE ROBOTS MARKET DURING FORECAST PERIOD 95

TABLE 39 AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 95

TABLE 40 AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 96

10.2 E-COMMERCE 96

10.2.1 RISING TREND OF ONLINE RETAIL AND E-COMMERCE SECTORS TO DRIVE MARKET 96

TABLE 41 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 97

TABLE 42 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 97

TABLE 43 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 97

TABLE 44 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 98

TABLE 45 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 98

TABLE 46 E-COMMERCE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 98

10.3 RETAIL 99

10.3.1 INCREASING USE OF AUTONOMOUS ROBOTS TO REPLENISH INVENTORY TO FUEL MARKET GROWTH 99

TABLE 47 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 99

TABLE 48 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 99

TABLE 49 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 100

TABLE 50 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 100

TABLE 51 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 100

TABLE 52 RETAIL: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 101

10.4 MANUFACTURING 101

10.4.1 HIGH FOCUS ON OPTIMIZING MANUFACTURING WORKFLOWS TO DRIVE DEMAND FOR AUTONOMOUS MOBILE ROBOTS 101

FIGURE 41 NORTH AMERICA TO CAPTURE LARGEST SHARE OF AUTONOMOUS MOBILE MARKET FOR MANUFACTURING IN 2028 101

TABLE 53 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 102

TABLE 54 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 102

TABLE 55 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 102

TABLE 56 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 102

TABLE 57 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 103

TABLE 58 MANUFACTURING: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 103

10.5 FOOD & BEVERAGE 103

10.5.1 GROWING FOCUS ON QUALITY CONTROL AND REGULATORY COMPLIANCE TO DRIVE ADOPTION OF AUTONOMOUS MOBILE ROBOTS 103

TABLE 59 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 104

TABLE 60 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 104

TABLE 61 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 104

TABLE 62 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 104

TABLE 63 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 105

TABLE 64 FOOD & BEVERAGE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 105

10.6 HEALTHCARE 105

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10.6.1 RISING EMPHASIS ON SAFETY AND HYGIENE TO BOOST DEPLOYMENT OF AUTONOMOUS MOBILE ROBOTS 105

TABLE 65 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 106

TABLE 66 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 106

TABLE 67 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 106

TABLE 68 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 107

TABLE 69 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 107

TABLE 70 HEALTHCARE: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 107

10.7 LOGISTICS 108

10.7.1 INCREASING IMPORTANCE OF INVENTORY MANAGEMENT IN LOGISTICS TO PROMOTE USE OF AUTONOMOUS MOBILE ROBOTS 108

FIGURE 42 100?500 KG SEGMENT TO ACCOUNT FOR LARGEST SHARE OF AUTONOMOUS MOBILE ROBOTS MARKET FOR LOGISTICS IN 2028 108

TABLE 71 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 109

TABLE 72 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 109

TABLE 73 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 109

TABLE 74 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 109

TABLE 75 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 110

TABLE 76 LOGISTICS: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 110

10.8 OTHERS 110

TABLE 77 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2019-2022 (USD MILLION) 111

TABLE 78 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY OFFERING, 2023-2028 (USD MILLION) 111

TABLE 79 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 111

TABLE 80 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 112

TABLE 81 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 112

TABLE 82 OTHERS: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 112

11 AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION 113

11.1 INTRODUCTION 114

FIGURE 43 AUTONOMOUS MOBILE ROBOTS MARKET IN CHINA TO GROW AT HIGHEST CAGR FROM 2023 TO 2028 114

TABLE 83 AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 114

TABLE 84 AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 115

11.2 NORTH AMERICA 115

11.2.1 NORTH AMERICA: RECESSION IMPACT 115

FIGURE 44 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET SNAPSHOT 116

TABLE 85 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 116

TABLE 86 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 117

TABLE 87 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 117

TABLE 88 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 117

TABLE 89 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 118

TABLE 90 NORTH AMERICA: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 118

11.2.2 US 118

11.2.2.1 Integration of AI-powered robots in warehouses to drive market 118

11.2.3 CANADA 119

11.2.3.1 Aging workforce to boost demand for autonomous mobile robots 119

11.2.4 MEXICO 119

11.2.4.1 Growth in logistics and food & beverage companies to drive market 119

11.3 EUROPE 119

11.3.1 EUROPE: RECESSION IMPACT 120

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FIGURE 45 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET SNAPSHOT 120

TABLE 91 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 121

TABLE 92 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 121

TABLE 93 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 121

TABLE 94 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 122

TABLE 95 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 122

TABLE 96 EUROPE: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 122

11.3.2 GERMANY 123

11.3.2.1 Increasing adoption of automation solutions in automotive industry to drive market 123

11.3.3 UK 123

11.3.3.1 Rapid growth of e-commerce and retail sectors to support market growth 123

11.3.4 FRANCE 123

11.3.4.1 Digital transformation in industrial sector to boost adoption of autonomous mobile robots 123

11.3.5 REST OF EUROPE 124

11.4 ASIA PACIFIC 124

11.4.1 ASIA PACIFIC: RECESSION IMPACT 124

FIGURE 46 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET SNAPSHOT 125

TABLE 97 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 125

TABLE 98 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 126

TABLE 99 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 126

TABLE 100 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 126

TABLE 101 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 127

TABLE 102 ASIA PACIFIC: AUTONOMOUS MOBILE ROBOTS MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 127

11.4.2 CHINA 127

11.4.2.1 Rise of e-commerce and government initiatives promoting automation to boost adoption of autonomous mobile robots 127

11.4.3 SOUTH KOREA 128

11.4.3.1 Government funding and initiatives to foster growth of autonomous mobile robots in commercial sector 128

11.4.4 JAPAN 128

11.4.4.1 Growing automotive and manufacturing industries to contribute significantly to market growth 128

11.4.5 REST OF ASIA PACIFIC 128

11.5 ROW 129

TABLE 103 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2019-2022 (USD MILLION) 129

TABLE 104 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY PAYLOAD CAPACITY, 2023-2028 (USD MILLION) 129

TABLE 105 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 129

TABLE 106 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 130

TABLE 107 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2019-2022 (USD MILLION) 130

TABLE 108 ROW: AUTONOMOUS MOBILE ROBOTS MARKET, BY REGION, 2023-2028 (USD MILLION) 130

11.5.1 SOUTH AMERICA 131

11.5.1.1 Increasing automation in food & beverage industry to boost demand for autonomous mobile robots 131

11.5.2 MIDDLE EAST & AFRICA 131

11.5.2.1 Booming e-commerce industry to drive demand for autonomous mobile robots 131

12 COMPETITIVE LANDSCAPE 132

12.1 OVERVIEW 132

12.2 STRATEGIES ADOPTED BY KEY PLAYERS 132

TABLE 109 OVERVIEW OF STRATEGIES ADOPTED BY AUTONOMOUS MOBILE ROBOTS VENDORS 132

12.3 REVENUE ANALYSIS OF TOP COMPANIES 133

FIGURE 47 FIVE-YEAR REVENUE ANALYSIS OF ABB COMPANY IN AUTONOMOUS MOBILE ROBOTS MARKET 133

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12.4	MARKET SHARE ANALYSIS	133
TABLE 110	AUTONOMOUS MOBILE ROBOTS MARKET SHARE ANALYSIS, 2022	133
FIGURE 48	AUTONOMOUS MOBILE ROBOTS MARKET: SHARE OF KEY PLAYERS	134
12.5	COMPANY EVALUATION MATRIX	135
12.5.1	STARS	135
12.5.2	EMERGING LEADERS	135
12.5.3	PERVASIVE PLAYERS	135
12.5.4	PARTICIPANTS	135
FIGURE 49	AUTONOMOUS MOBILE ROBOTS MARKET (GLOBAL): COMPANY EVALUATION MATRIX, 2022	136
12.6	SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION MATRIX	137
12.6.1	PROGRESSIVE COMPANIES	137
12.6.2	RESPONSIVE COMPANIES	137
12.6.3	DYNAMIC COMPANIES	137
12.6.4	STARTING BLOCKS	137
FIGURE 50	AUTONOMOUS MOBILE ROBOTS MARKET (GLOBAL): SMES EVALUATION MATRIX, 2022	138
12.7	AUTONOMOUS MOBILE ROBOTS MARKET: COMPANY FOOTPRINT	139
TABLE 111	COMPANY FOOTPRINT	139
TABLE 112	PAYLOAD CAPACITY: COMPANY FOOTPRINT	140
TABLE 113	INDUSTRY: COMPANY FOOTPRINT	141
TABLE 114	REGION: COMPANY FOOTPRINT	142
12.8	COMPETITIVE BENCHMARKING	143
TABLE 115	AUTONOMOUS MOBILE ROBOTS MARKET: LIST OF KEYS STARTUPS/SMES	143
TABLE 116	AUTONOMOUS MOBILE ROBOTS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	143
12.9	COMPETITIVE SCENARIOS AND TRENDS	144
TABLE 117	AUTONOMOUS MOBILE ROBOTS MARKET: PRODUCT LAUNCHES, 2021-2023	144
TABLE 118	AUTONOMOUS MOBILE ROBOTS MARKET: DEALS, 2021-2023	145
TABLE 119	AUTONOMOUS MOBILE ROBOTS MARKET: OTHERS, 2021-2023	146
13	COMPANY PROFILES	147
	(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*	
13.1	KEY PLAYERS	147
13.1.1	ABB	147
TABLE 120	ABB: COMPANY OVERVIEW	147
FIGURE 51	ABB: COMPANY SNAPSHOT	148
TABLE 121	ABB: PRODUCT/SOLUTION/SERVICE OFFERINGS	148
TABLE 122	ABB: PRODUCT LAUNCHES	149
TABLE 123	ABB: DEALS	150
13.1.2	OMRON AUTOMATION	151
TABLE 124	OMRON AUTOMATION: COMPANY OVERVIEW	151
TABLE 125	OMRON AUTOMATION: PRODUCT/SOLUTION/SERVICE OFFERINGS	151
TABLE 126	OMRON AUTOMATION: PRODUCT LAUNCHES	152
13.1.3	MOBILE INDUSTRIAL ROBOTS	153
TABLE 127	MOBILE INDUSTRIAL ROBOTS: COMPANY OVERVIEW	153
TABLE 128	MOBILE INDUSTRIAL ROBOTS: PRODUCT/SOLUTION/SERVICE OFFERINGS	153
TABLE 129	MOBILE INDUSTRIAL ROBOTS: PRODUCT LAUNCHES	154
TABLE 130	MOBILE INDUSTRIAL ROBOTS: DEALS	155
13.1.4	FETCH ROBOTICS	156
TABLE 131	FETCH ROBOTICS: COMPANY OVERVIEW	156

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TABLE 132 □ FETCH ROBOTICS: PRODUCT/SOLUTION/SERVICE OFFERINGS □ 156

TABLE 133 □ FETCH ROBOTICS: PRODUCT LAUNCHES □ 158

TABLE 134 □ FETCH ROBOTICS: DEALS □ 158

13.1.5 □ OTTO MOTORS □ 160

TABLE 135 □ OTTO MOTORS: COMPANY OVERVIEW □ 160

TABLE 136 □ PRODUCT/SOLUTION/SERVICE OFFERINGS □ 160

TABLE 137 □ OTTO MOTORS: PRODUCT LAUNCHES □ 161

TABLE 138 □ OTTO MOTORS: DEALS □ 162

TABLE 139 □ OTTO MOTORS: OTHERS □ 163

13.1.6 □ ADDVERB TECHNOLOGIES □ 164

TABLE 140 □ ADDVERB TECHNOLOGIES: COMPANY OVERVIEW □ 164

FIGURE 52 □ ADDVERB TECHNOLOGIES: COMPANY SNAPSHOT □ 164

TABLE 141 □ ADDVERB TECHNOLOGIES: PRODUCT/SOLUTION/SERVICE OFFERINGS □ 165

TABLE 142 □ ADDVERB TECHNOLOGIES: OTHERS □ 166

13.1.7 □ AETHON □ 167

TABLE 143 □ AETHON: COMPANY OVERVIEW □ 167

TABLE 144 □ AETHON: PRODUCT/SOLUTION/SERVICE OFFERINGS □ 167

13.1.8 □ GEEK+ □ 169

TABLE 145 □ GEEK+: COMPANY OVERVIEW □ 169

TABLE 146 □ PRODUCT/SOLUTION/SERVICE OFFERINGS □ 169

TABLE 147 □ GEEK+: DEALS □ 171

13.1.9 □ INVIA ROBOTICS □ 172

TABLE 148 □ INVIA ROBOTICS: COMPANY OVERVIEW □ 172

TABLE 149 □ INVIA ROBOTICS: PRODUCT/SOLUTION/SERVICE OFFERINGS □ 172

TABLE 150 □ INVIA ROBOTICS: DEALS □ 173

13.1.10 □ LOCUS ROBOTICS □ 174

TABLE 151 □ LOCUS ROBOTICS: COMPANY OVERVIEW □ 174

TABLE 152 □ LOCUS ROBOTICS: PRODUCT/SOLUTION/SERVICE OFFERINGS □ 174

TABLE 153 □ LOCUS ROBOTICS: PRODUCT LAUNCHES □ 175

TABLE 154 □ LOCUS ROBOTICS: DEALS □ 175

*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

13.2 □ OTHER PLAYERS □ 176

13.2.1 □ BOSTON DYNAMICS □ 176

TABLE 155 □ BOSTON DYNAMICS: COMPANY OVERVIEW □ 176

13.2.2 □ EIRATECH ROBOTICS □ 177

TABLE 156 □ EIRATECH ROBOTICS: COMPANY OVERVIEW □ 177

13.2.3 □ GREYORANGE □ 178

TABLE 157 □ GREYORANGE: COMPANY OVERVIEW □ 178

13.2.4 □ MAGAZINO □ 179

TABLE 158 □ MAGAZINO: COMPANY OVERVIEW □ 179

13.2.5 □ IAM ROBOTICS □ 180

TABLE 159 □ IAM ROBOTICS: COMPANY OVERVIEW □ 180

13.2.6 □ MATTHEWS AUTOMATION SOLUTION □ 181

TABLE 160 □ MATTHEWS AUTOMATION SOLUTION: COMPANY OVERVIEW □ 181

13.2.7 □ MILVUS ROBOTICS □ 182

TABLE 161 □ MILVUS ROBOTICS: COMPANY OVERVIEW □ 182

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13.2.8	MOVE ROBOTIC	183
TABLE 162	MOVE ROBOTIC: COMPANY OVERVIEW	183
13.2.9	QUICKTRON ROBOTICS	184
TABLE 163	QUICKTRON ROBOTICS: COMPANY OVERVIEW	184
13.2.10	ROBOTNIK	185
TABLE 164	ROBOTNIK: COMPANY OVERVIEW	185
13.2.11	6 RIVER SYSTEMS	186
TABLE 165	6 RIVER SYSTEMS: COMPANY OVERVIEW	186
13.2.12	SCALLOG	187
TABLE 166	SCALLOG: COMPANY OVERVIEW	187
13.2.13	SEEGRID	188
TABLE 167	SEEGRID: COMPANY OVERVIEW	188
13.2.14	SESTO ROBOTICS	188
TABLE 168	SESTO ROBOTICS: COMPANY OVERVIEW	188
13.2.15	VECNA ROBOTICS	189
TABLE 169	VECNA ROBOTICS: COMPANY OVERVIEW	189
14	ADJACENT MARKETS	190
14.1	RFID MARKET	190
14.2	INTRODUCTION	190
FIGURE 53	RFID MARKET, BY OFFERING	190
FIGURE 54	TAGS TO DOMINATE RFID MARKET DURING FORECAST PERIOD	191
TABLE 170	RFID MARKET, BY OFFERING, 2018-2021 (USD MILLION)	191
TABLE 171	RFID MARKET, BY OFFERING, 2022-2030 (USD MILLION)	191
14.3	TAGS	192
14.3.1	INCREASING USE OF RFID TAGS IN INDUSTRIAL ENVIRONMENTS TO IDENTIFY ASSETS TO DRIVE MARKET	192
14.4	READERS	192
14.4.1	FIXED READERS	193
14.4.1.1	Rising adoption of fixed readers to scan manufactured products to support market growth	193
14.4.2	HANDHELD READERS	193
14.4.2.1	Growing use of handheld readers to track valuable assets to drive market	193
?		
14.5	SOFTWARE & SERVICES	194
14.5.1	INCREASED DEPLOYMENT OF CLOUD-BASED MODELS TO DRIVE DEMAND FOR SOFTWARE & SERVICES	194
15	APPENDIX	195
15.1	INSIGHTS FROM INDUSTRY EXPERTS	195
15.2	DISCUSSION GUIDE	195
15.3	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	198
15.4	CUSTOMIZATION OPTIONS	200
15.5	RELATED REPORTS	200
15.6	AUTHOR DETAILS	201

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