+44 20 8123 2220
info@marketpublishers.com

Automated Material Handling Equipment Market by Product (Robots, ASRS, Conveyors And Sortation Systems, Cranes, WMS, AGV), System Type (Unit Load, Bulk Load), Industry (Automotive, E-Commerce, Food & Beverage) and Region - Global Forecast to 2028

https://marketpublishers.com/r/M97B7F0AECFEN.html
Date: May 2023
Pages: 308
Price: US$ 4,950.00 (Single User License)
ID: M97B7F0AECFEN

Abstracts

The automated material handling equipment market is projected to reach USD 45.7 billion by 2028 from USD 30.6 billion in 2023, at a CAGR of 8.3% from 2023 to 2028. The growth of this market is attributed to the rising demand for automated material handling equipment among diverse industries and the growing number of startups offering robotics solutions for warehouse automation.

“Unit Load segment is projected to grow at a higher CAGR during 2023?2028.”

Unit load material handling systems involve appropriately sized items organized into a single unit that can be moved easily. It consists in handling various items or unit formats independently, even when they are transported in large quantities or are significant in dimension. These systems are quick and economical to move several items in a single run. These systems help reduce damages and handling costs. Such systems make handling, storage, and distribution more efficient. The types of AMHE used to manage unit loads include AGVs, ASRS, and robots.

“Automotive Industry to account for the largest share of market in 2023.”

The automotive industry players seek improvements in manufacturing through automated and efficient processes. These companies need to carry out their

manufacturing and assembling operations efficiently by carefully handling various components and keeping track of it. The deployment of AMHE in this industry helps prevent damage to auto parts, reduce the cost of unproductive labor hours by handling inventory, and maximize storage capacity within the available floor space.

“Asia Pacific is anticipated to contribute the largest share of the market during the forecast period.”

Asia Pacific consists of some of the fastest-growing economies—such as China, Japan, and India. Substantial domestic demand for products and significant business growth opportunities have led to the establishment of number of manufacturing and warehousing plants of various industries in the countries. These plants are of major industries such as automotive, metals & heavy machinery, and semiconductor & electronics, in the region. This in turn is offering lucrative opportunities for the automated material handling equipment market in Asia Pacific.

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 automated material handling equipment market include Daifuku (Japan), KION (Germany), SSI Schaefer (Germany), Toyota Industries (Japan), and Honeywell International (US).

Research Coverage

The report segments the automated material handling equipment market into product, system type, 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:

+44 20 8123 2220
info@marketpublishers.com

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall automated material handling equipment 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 key drivers (Increasing penetration of ASRS in the e-commerce industry, growing number of startups offering robotic solutions for warehouse automation, high labor costs, and safety concerns, paradigm shift from mass production to mass customization), restraints (Requirement for significant capital, high integration, and switching costs), opportunities (Substantial industrial growth in emerging economies, existence of huge intralogistics sector in Southeast Asia, growing extent of order customization and personalization), and challenges (immense technical challenges related to sensing elements, production and revenue losses due to unwanted equipment downtime) influencing the growth of the automated material handling equipment market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the automated material handling equipment market.

Market Development: Comprehensive information about lucrative markets – the report analyses the automated material handling equipment market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the automated material handling equipment market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Daifuku (Japan), KION (Germany), SSI Schaefer (Germany), Toyota Industries (Japan), and Honeywell International (US).

+44 20 8123 2220
info@marketpublishers.com

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES
1.2 MARKET DEFINITION
1.3 INCLUSIONS AND EXCLUSIONS
1.4 STUDY SCOPE
  1.4.1 MARKETS COVERED
FIGURE 1 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: SEGMENTATION
  1.4.2 REGIONAL SCOPE
  1.4.3 YEARS CONSIDERED
1.5 CURRENCY
1.6 STAKEHOLDERS
1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
FIGURE 2 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: RESEARCH DESIGN
  2.1.1 SECONDARY DATA
    2.1.1.1 List of major secondary sources
    2.1.1.2 Key data from secondary sources
  2.1.2 PRIMARY DATA
    2.1.2.1 Primary interviews with experts
    2.1.2.2 Breakdown of primaries
    2.1.2.3 Key data from primary sources
  2.1.3 SECONDARY AND PRIMARY RESEARCH
    2.1.3.1 Key industry insights
2.2 MARKET SIZE ESTIMATION
  2.2.1 BOTTOM-UP APPROACH
    2.2.1.1 Approach to derive market size using bottom-up analysis
FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
  2.2.2 TOP-DOWN APPROACH
    2.2.2.1 Approach to derive market size using bottom-up analysis
FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE):

+44 20 8123 2220
info@marketpublishers.com

REVENUE GENERATED BY KEY PLAYERS FROM AGV BUSINESS
2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
FIGURE 6 MARKET BREAKDOWN AND DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
2.5 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
2.6 LIMITATIONS
2.7 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 7 ASRS SEGMENT HELD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET IN 2022
FIGURE 8 UNIT LOAD MATERIAL HANDLING SYSTEM SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE DURING FORECAST PERIOD
FIGURE 9 AUTOMOTIVE SEGMENT HELD LARGEST MARKET SHARE IN 2022
FIGURE 10 ASIA PACIFIC HELD LARGEST MARKET SHARE IN 2022

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
FIGURE 11 RISING DEPLOYMENT OF AUTOMATION SOLUTIONS IN WAREHOUSES
4.2 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT
FIGURE 12 ASRS SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD
4.3 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR AGV, BY TYPE
FIGURE 13 TOW VEHICLE SEGMENT HELD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR AGV IN 2022
4.4 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY
FIGURE 14 AUTOMOTIVE SEGMENT TO HOLD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET IN 2023
4.5 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION
FIGURE 15 CANADA TO REGISTER HIGHEST CAGR IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

+44 20 8123 2220
info@marketpublishers.com

5.1 INTRODUCTION
5.2 MARKET DYNAMICS
FIGURE 16 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES
5.2.1 DRIVERS
5.2.1.1 Increasing penetration of automated storage and retrieval systems into e-commerce industry
5.2.1.2 Increasing number of startups offering robotic solutions for warehouse automation
5.2.1.3 Rising demand for automated material handling equipment in various industries
FIGURE 17 GLOBAL VEHICLE PRODUCTION, 2017–2021 (MILLION UNITS)
5.2.1.4 High labor costs and safety concerns
5.2.1.5 Paradigm shift toward mass customization from mass production
FIGURE 18 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: IMPACT ANALYSIS OF DRIVERS
5.2.2 RESTRAINTS
5.2.2.1 Requirement for high capital by small and medium-sized enterprises (SMEs) to deploy automated material handling equipment
5.2.2.2 High integration and switching costs
5.2.2.3 Inadequate technical expertise to manage system operations
FIGURE 19 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: IMPACT ANALYSIS OF RESTRAINTS
5.2.3 OPPORTUNITIES
5.2.3.1 Growing extent of order customization and personalization
5.2.3.2 Digitalization of supply chain processes with integration of Internet of Things (IoT) and automated material handling equipment
5.2.3.3 Substantial industrial growth in emerging economies
5.2.3.4 Expanding intralogistics sector in Southeast Asia
5.2.3.5 Potential growth prospects in healthcare industry
FIGURE 20 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: IMPACT ANALYSIS OF OPPORTUNITIES
5.2.4 CHALLENGES
5.2.4.1 Production and revenue losses attributed to unwanted equipment downtime
5.2.4.2 Technical challenges related to sensing elements
5.2.4.3 Development of flexible and scalable automated material equipment with constant technological advancements
FIGURE 21 AUTOMATED MATERIAL HANDLING SYSTEM MARKET: IMPACT ANALYSIS OF CHALLENGES

+44 20 8123 2220
info@marketpublishers.com

5.3 VALUE CHAIN ANALYSIS
FIGURE 22 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: VALUE CHAIN ANALYSIS
5.4 ECOSYSTEM ANALYSIS
FIGURE 23 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: ECOSYSTEM ANALYSIS
TABLE 1 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: ECOSYSTEM ANALYSIS
5.5 PRICING ANALYSIS
5.5.1 AVERAGE SELLING PRICE OF ASRS OFFERED BY KEY PLAYERS, BY TYPE
FIGURE 24 AVERAGE PROJECT COST OF ASRS BASED ON TYPE, BY COMPANY
TABLE 2 AVERAGE PROJECT COST OF ASRS BASED ON TYPE, BY COMPANY (USD)
5.5.2 AVERAGE SELLING PRICE OF COLLABORATIVE ROBOTS BASED ON PAYLOAD, BY KEY PLAYER
FIGURE 25 AVERAGE SELLING PRICE OF COLLABORATIVE ROBOTS BASED ON PAYLOAD, BY KEY PLAYERS
TABLE 3 AVERAGE SELLING PRICE OF COLLABORATIVE ROBOTS BASED ON PAYLOAD, BY KEY PLAYERS
5.5.3 AVERAGE SELLING PRICE TREND
TABLE 4 AVERAGE SELLING PRICE OF AGVS
TABLE 5 AVERAGE SELLING PRICE OF AGVS, BY REGION
FIGURE 26 AVERAGE SELLING PRICE OF AGVS, 2019?2028
TABLE 6 AVERAGE SELLING PRICE OF ROBOTS
TABLE 7 AVERAGE SELLING PRICE OF SORTATION SYSTEMS
TABLE 8 AVERAGE SELLING PRICE OF CONVEYOR SYSTEMS
TABLE 9 AVERAGE SELLING PRICE OF CRANES
TABLE 10 PRICING OF WAREHOUSE MANAGEMENT SYSTEMS
5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES
FIGURE 27 REVENUE SHIFT FOR AUTOMATED MATERIAL HANDLING EQUIPMENT PROVIDERS
5.7 TECHNOLOGY ANALYSIS
5.7.1 WEARABLE TECHNOLOGY
5.7.2 PREDICTIVE ANALYTICS
5.7.3 MACHINE LEARNING PLATFORM
5.7.4 DIGITAL TWIN MODEL BUILDER
5.7.5 VOICE RECOGNITION TECHNOLOGY
5.7.6 5G

+44 20 8123 2220
info@marketpublishers.com

5.7.7 IOT
5.7.8 INDUSTRY 4.0
5.7.9 ROBOTIC PROCESS AUTOMATION
5.8 PORTER'S FIVE FORCES ANALYSIS
FIGURE 28 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: PORTER'S FIVE FORCES ANALYSIS
TABLE 11 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: PORTER'S FIVE FORCES ANALYSIS
5.9 KEY STAKEHOLDERS AND BUYING CRITERIA
5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS
FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE INDUSTRIES
TABLE 12 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE INDUSTRIES (%)
5.9.2 BUYING CRITERIA
FIGURE 30 KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES
TABLE 13 KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES
5.10 CASE STUDY ANALYSIS
TABLE 14 ASSESSMENT OF FEINTOOL SYSTEM PARTS OBERTSHAUSEN
TABLE 15 ASSESSMENT OF REITAN DISTRIBUTION
TABLE 16 ASSESSMENT OF RM RESOURCES
TABLE 17 ASSESSMENT FOR LARGE AGV FLEET
TABLE 18 ASSESSMENT FOR CUSTOM-ENGINEERED AGVS
5.11 TRADE ANALYSIS
5.11.1 IMPORT SCENARIO
FIGURE 31 IMPORT DATA, BY KEY COUNTRY, 2017–2021 (USD MILLION)
5.11.2 EXPORT SCENARIO
FIGURE 32 EXPORT DATA, BY KEY COUNTRY, 2017–2021 (USD MILLION)
5.12 PATENT ANALYSIS
FIGURE 33 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS
TABLE 19 TOP 20 PATENT OWNERS IN US IN LAST 10 YEARS
FIGURE 34 NUMBER OF PATENTS GRANTED PER YEAR FROM 2012 TO 2022
TABLE 20 LIST OF PATENTS RELATED TO AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
5.13 KEY CONFERENCES AND EVENTS, 2023–2025
TABLE 21 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: CONFERENCES AND EVENTS
5.14 REGULATORY LANDSCAPE

+44 20 8123 2220
info@marketpublishers.com

5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 22 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 23 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 24 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 25 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
5.14.2 STANDARDS AND REGULATIONS RELATED TO AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
5.14.3 SAFETY STANDARDS FOR ASRS
TABLE 26 SAFETY STANDARDS FOR ASRS
5.14.4 SAFETY STANDARDS FOR AGVS
TABLE 27 SAFETY STANDARDS FOR AGVS

6 EMERGING TECHNOLOGIES AND APPLICATIONS RELATED TO AUTOMATED MATERIAL HANDLING EQUIPMENT

6.1 INTRODUCTION
6.2 OFFERINGS IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
FIGURE 35 OFFERINGS IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
6.2.1 HARDWARE
6.2.2 SOFTWARE
FIGURE 36 WES INTEGRATES KEY FUNCTIONALITIES OF WMS AND WES
6.2.2.1 Services
6.2.2.2 Maintenance and repair
6.2.2.3 Training
6.2.2.4 Software upgrade
6.3 EMERGING APPLICATIONS OF ASRS
6.3.1 HOSPITALS
6.3.2 ACADEMIC INSTITUTIONS
6.4 EMERGING APPLICATIONS OF AGVS
6.4.1 HOSPITALS
6.4.2 THEME PARKS
6.5 EMERGING TECHNOLOGIES USED IN AGVS
6.5.1 LIDAR SENSORS

+44 20 8123 2220
info@marketpublishers.com

6.5.2 CAMERA VISION
6.5.3 DUAL-MODE AGVS
6.6 TECHNOLOGICAL TRENDS SHAPING FUTURE OF AUTOMATED MATERIAL HANDLING
6.6.1 BIG DATA AND ANALYTICS
6.6.2 INTERNET OF THINGS (IOT)
6.6.3 MOBILE TECHNOLOGY
6.6.4 VOICE PICKING
6.6.5 ADVANCED ROBOTICS
6.6.6 AUTONOMOUS VEHICLES
6.7 EMERGING MATERIAL HANDLING TECHNOLOGIES ASSOCIATED WITH INDUSTRY 4.0 FRAMEWORK
6.7.1 AUTONOMOUS MOBILE ROBOT (AMR)
6.7.2 COBOT
6.7.3 3D MOBILE ROBOT

7 OUTDOOR MATERIAL HANDLING EQUIPMENT (QUALITATIVE)

7.1 INTRODUCTION
7.2 FORKLIFT
7.3 AGV
7.3.1 TOW VEHICLE
7.3.2 UNIT LOAD CARRIER

8 LATEST TRENDS IN WAREHOUSING TECHNOLOGIES IMPACTING AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET

8.1 INTRODUCTION
8.2 CENTRALIZED FULFILLMENT CENTER (CFC)
8.3 MICRO FULFILLMENT CENTER (MFC)
8.3.1 DEVELOPMENTS IN MICRO FULFILLMENT CENTERS (MFCS)
FIGURE 37 KEY ELEMENTS POWERING DEVELOPMENTS IN MICRO FULFILLMENT CENTERS (MFCS)
8.3.2 ADVANTAGES ASSOCIATED WITH MICRO FULFILLMENT CENTERS (MFCS) OVER CENTRALIZED FULFILMENT CENTERS (CFCS)
8.3.3 MICRO FULFILLMENT CENTER (MFC): ECOSYSTEM ANALYSIS
FIGURE 38 ECOSYSTEM OF MICRO FULFILLMENT CENTER (MFC)
8.3.4 MAJOR COMPANIES LEADING WAYS TO MICRO FULFILLMENT CENTERS (MFCS)

+44 20 8123 2220
info@marketpublishers.com

8.3.5 KEY TECHNOLOGIES USED IN MICRO FULFILLMENT CENTERS (MFCS)
FIGURE 39 KEY TECHNOLOGIES USED IN MICRO FULFILLMENT CENTERS (MFCS)
8.3.5.1 Cube storage
8.3.5.2 Autonomous mobile robot (AMR)
8.3.5.3 Shuttle system
8.3.5.4 Others
8.3.6 FUNDING IN MICRO FULFILLMENT CENTERS (MFCS)
TABLE 28 OVERVIEW OF RECENT MAJOR FUNDING FOR MICRO FULFILLMENT CENTERS (MFCS)
8.4 AUTONOMOUS MACHINES
8.5 WAREHOUSE AUTOMATION
8.6 DARK STORES

9 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT

9.1 INTRODUCTION
FIGURE 40 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT
FIGURE 41 ASRS SEGMENT TO HOLD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET DURING FORECAST PERIOD
TABLE 29 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 30 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
9.2 ROBOT
TABLE 31 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 32 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 33 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 34 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2023–2028 (USD MILLION)
TABLE 35 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY TYPE, 2019–2022 (USD MILLION)
TABLE 36 ROBOT: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY TYPE, 2023–2028 (USD MILLION)
9.2.1 TRADITIONAL ROBOT

9.2.1.1 Articulated robot
9.2.1.1.1 Used for inspection, testing, and packaging in automotive and metals industries
FIGURE 42 ILLUSTRATION OF 6-AXIS ARTICULATED ROBOT
TABLE 37 ADVANTAGES, DISADVANTAGES, AND APPLICATIONS OF ARTICULATED ROBOTS
9.2.1.2 Cylindrical robot
9.2.1.2.1 Ensures high accuracy and repeatability in industrial operations
9.2.1.3 Selective compliance assembly robot arm (SCARA) robot
9.2.1.3.1 Used for faster assembly and palletizing applications
FIGURE 43 ILLUSTRATION OF 4-AXIS SCARA ROBOT
TABLE 38 ADVANTAGES, DISADVANTAGES, AND APPLICATIONS OF SCARA ROBOTS
9.2.1.4 Delta robot
9.2.1.4.1 Used for fast pick-and-place operations in process industries
FIGURE 44 ILLUSTRATION OF PARALLEL ROBOT
TABLE 39 PARALLEL ROBOT: SUMMARY TABLE
9.2.1.5 Cartesian robot
9.2.1.5.1 Easily configured for precision applications
FIGURE 45 ILLUSTRATION OF CARTESIAN ROBOT
TABLE 40 ADVANTAGES, DISADVANTAGES, AND APPLICATIONS OF CARTESIAN ROBOTS
9.2.2 COLLABORATIVE ROBOT
9.2.2.1 Used to achieve higher efficiency in production
9.2.3 AUTONOMOUS MOBILE ROBOT (AMR)
9.2.3.1 Offers efficient and flexible route for navigation
9.3 AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS)
TABLE 41 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 42 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 43 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 44 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2023–2028 (USD MILLION)
FIGURE 46 UNIT LOAD SEGMENT TO ACCOUNT FOR LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR ASRS DURING FORECAST PERIOD
TABLE 45 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE,

+44 20 8123 2220
info@marketpublishers.com

2019–2022 (USD MILLION)
TABLE 46 ASRS: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE, 2023–2028 (USD MILLION)
9.3.1 UNIT LOAD AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS)
9.3.1.1 Used to resolve operational and productivity issues
9.3.2 MINI LOAD AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS)
9.3.2.1 Widely used in pharmaceutical and medical industries
9.3.3 VERTICAL LIFT MODULE (VLM)
9.3.3.1 Increases productivity and improves accuracy levels
9.3.4 CAROUSEL
9.3.4.1 Vertical carousel
9.3.4.1.1 Improves inventory accuracy and productivity
9.3.4.2 Horizontal carousel
9.3.4.2.1 Improves flexibility and efficiency in picking
9.3.5 MID LOAD AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS)
9.3.5.1 Equipped with features of mini load and unit load ASRS
9.4 CONVEYOR & SORTATION SYSTEM
9.4.1 BELT CONVEYOR
9.4.1.1 Most economical conveyor used across various industries
9.4.2 ROLLER CONVEYOR
9.4.2.1 Used in warehouses and manufacturing facilities
9.4.3 OVERHEAD CONVEYOR
9.4.3.1 Well-suited for e-commerce and retail applications
9.4.4 SCREW CONVEYOR
9.4.4.1 Widely used in food & beverage and chemical industries
TABLE 47 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 48 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 49 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 50 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2023–2028 (USD MILLION)
TABLE 51 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE, 2019–2022 (USD MILLION)
TABLE 52 CONVEYOR & SORTATION SYSTEM: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE, 2023–2028 (USD MILLION)
9.5 CRANE
9.5.1 USED TO MOVE MATERIALS OVER VARIABLE PATHS AUTOMATICALLY

+44 20 8123 2220
info@marketpublishers.com

FIGURE 47 AUTOMOTIVE SEGMENT TO HOLD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR CRANE DURING FORECAST PERIOD
TABLE 53 CRANE: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 54 CRANE: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 55 CRANE: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 56 CRANE: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2023–2028 (USD MILLION)
9.6 AUTOMATED GUIDED VEHICLE (AGV)
TABLE 57 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 58 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 59 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 60 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2023–2028 (USD MILLION)
9.6.1 AUTOMATIC GUIDED VEHICLE (AGV) MARKET, BY TYPE
9.6.1.1 Tow vehicle
9.6.1.1.1 Prominently used in automotive industry
9.6.1.2 Unit load carrier
9.6.1.2.1 Widely adopted in heavy manufacturing industries
9.6.1.3 Pallet truck
9.6.1.3.1 Widely used in warehouses
9.6.1.4 Assembly line vehicle
9.6.1.4.1 Assists in transportation for serial assembly operations
9.6.1.5 Forklift truck
9.6.1.5.1 Used to pick and transport pallets
9.6.1.6 Others
TABLE 61 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE, 2019–2022 (USD MILLION)
TABLE 62 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY TYPE, 2023–2028 (USD MILLION)
TABLE 63 LIST OF MAJOR AGV VENDORS
9.6.2 AUTOMATIC GUIDED VEHICLE (AGV) MARKET, BY NAVIGATION TECHNOLOGY

+44 20 8123 2220
info@marketpublishers.com

FIGURE 48 NAVIGATION TECHNOLOGIES USED IN AGVS
9.6.2.1 Laser guidance
9.6.2.1.1 Offers accurate navigation
9.6.2.2 Magnetic guidance
9.6.2.2.1 Easy to install and reliable
9.6.2.3 Inductive guidance
9.6.2.3.1 Works in harsh environments and heavy traffic
9.6.2.4 Optical tape guidance
9.6.2.4.1 Uses colored floor linings to provide path for AGVs
9.6.2.5 Vision guidance
9.6.2.5.1 Helps manufacturers in supply chain management
9.6.2.6 Others
TABLE 64 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY NAVIGATION TECHNOLOGY, 2019–2022 (USD MILLION)
TABLE 65 AGV: AUTOMATED MATERIAL HANDLING MARKET, BY NAVIGATION TECHNOLOGY, 2023–2028 (USD MILLION)
9.7 WAREHOUSE MANAGEMENT SYSTEM (WMS)
TABLE 66 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 67 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 68 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 69 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY REGION, 2023–2028 (USD MILLION)
9.7.1 WAREHOUSE MANAGEMENT SYSTEM (WMS) MARKET, BY DEPLOYMENT TYPE
9.7.1.1 On-premises
9.7.1.1.1 Provides complete control and security to organizations
9.7.1.2 Cloud
9.7.1.2.1 Offers low-cost, scalable, and faster solutions to various organizations
TABLE 70 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY DEPLOYMENT TYPE, 2019–2022 (USD MILLION)
TABLE 71 WMS: AUTOMATED MATERIAL HANDLING MARKET, BY DEPLOYMENT TYPE, 2023–2028 (USD MILLION)
9.8 REAL-TIME LOCATION SYSTEMS (RLTS)
TABLE 72 REAL-TIME LOCATION SYSTEM (RTLS) MARKET FOR WAREHOUSE MANAGEMENT, 2019–2022 (USD MILLION)
TABLE 73 REAL-TIME LOCATION SYSTEM (RTLS) MARKET FOR WAREHOUSE

+44 20 8123 2220
info@marketpublishers.com

MANAGEMENT, 2023–2028 (USD MILLION)

10 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY SYSTEM TYPE

10.1 INTRODUCTION
FIGURE 49 UNIT LOAD SEGMENT TO HOLD LARGER SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET DURING FORECAST PERIOD
TABLE 74 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)
TABLE 75 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)
10.2 UNIT LOAD MATERIAL HANDLING SYSTEM
10.2.1 ADVANTAGES ASSOCIATED WITH UNIT LOAD MATERIAL HANDLING SYSTEMS
10.2.2 DISADVANTAGES ASSOCIATED WITH UNIT LOAD MATERIAL HANDLING SYSTEMS
10.3 BULK LOAD MATERIAL HANDLING SYSTEM
10.3.1 ADVANTAGES ASSOCIATED WITH BULK LOAD MATERIAL HANDLING SYSTEMS
10.3.2 DISADVANTAGES ASSOCIATED WITH BULK LOAD MATERIAL HANDLING SYSTEMS

11 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY

11.1 INTRODUCTION
FIGURE 50 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY
FIGURE 51 AUTOMOTIVE SEGMENT TO HOLD LARGEST SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FROM 2023 TO 2028
TABLE 76 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 77 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
11.2 AUTOMOTIVE
11.2.1 RISING USE OF AUTOMATED GUIDED VEHICLES (AGVS) AND AUTOMATED STORAGE AND RETRIEVAL SYSTEMS (ASRS) TO ENHANCE MANUFACTURING PROCESSES
TABLE 78 AUTOMOTIVE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)

TABLE 79 AUTOMOTIVE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.3 CHEMICAL
11.3.1 INCLINATION OF CHEMICAL INDUSTRY PLAYERS TOWARD DIGITALIZATION
TABLE 80 CHEMICAL: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 81 CHEMICAL: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.4 AVIATION
11.4.1 GROWING NEED FOR SYSTEMATIC MANUFACTURING AND ASSEMBLY OPERATIONS IN AVIATION INDUSTRY
TABLE 82 AVIATION: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 83 AVIATION: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.5 SEMICONDUCTOR & ELECTRONICS
11.5.1 GROWING NEED FOR ACCURACY IN SEMICONDUCTOR AND ELECTRONICS MANUFACTURING
TABLE 84 SEMICONDUCTOR & ELECTRONICS: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 85 SEMICONDUCTOR & ELECTRONICS: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.6 E-COMMERCE
11.6.1 GROWING USE OF ROBOTS AND AUTOMATED GUIDED VEHICLES (AGVS) IN E-COMMERCE INDUSTRY TO REDUCE TRANSIT TIME
TABLE 86 E-COMMERCE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 87 E-COMMERCE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.7 FOOD & BEVERAGE
11.7.1 CONSTANT NEED FOR EFFICIENT STORAGE, RETRIEVAL, AND TRANSIT SOLUTIONS
FIGURE 52 WMS SEGMENT TO REGISTER HIGHEST CAGR IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR FOOD & BEVERAGE INDUSTRY DURING FORECAST PERIOD
TABLE 88 FOOD & BEVERAGE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 89 FOOD & BEVERAGE: AUTOMATED MATERIAL HANDLING EQUIPMENT

+44 20 8123 2220
info@marketpublishers.com

MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.8 HEALTHCARE
11.8.1 INCREASED USE OF AUTOMATED MATERIAL HANDLING EQUIPMENT FOR MANUFACTURING, STORING, AND DISTRIBUTION BY HEALTHCARE COMPANIES
TABLE 90 HEALTHCARE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 91 HEALTHCARE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
FIGURE 53 PHARMACEUTICAL SEGMENT TO HOLD LARGER SHARE OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FOR HEALTHCARE INDUSTRY DURING FORECAST PERIOD
TABLE 92 HEALTHCARE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY TYPE, 2019–2022 (USD MILLION)
TABLE 93 HEALTHCARE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY TYPE, 2023–2028 (USD MILLION)
11.8.2 PHARMACEUTICAL
11.8.2.1 AGV, ASRS, and conveyors majorly used in pharmaceutical industry
11.8.3 MEDICAL DEVICE
11.8.3.1 Automated material handling equipment find applications in medical device manufacturing
11.9 METALS & HEAVY MACHINERY
11.9.1 RISING USE OF AUTOMATED MATERIAL HANDLING EQUIPMENT TO EASE WORKFLOW IN METALS & HEAVY MACHINERY INDUSTRIES
TABLE 94 METALS & HEAVY MACHINERY: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 95 METALS & HEAVY MACHINERY: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.10 THIRD-PARTY LOGISTICS (3PL)
11.10.1 OPTIMIZATION OF LOGISTICS PROCESSES USING AUTOMATED MATERIAL HANDLING EQUIPMENT
TABLE 96 3PL: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 97 3PL: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
11.11 OTHERS
TABLE 98 OTHERS: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 99 OTHERS: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET,

+44 20 8123 2220
info@marketpublishers.com

BY PRODUCT, 2023–2028 (USD MILLION)

12 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION

12.1 INTRODUCTION
FIGURE 54 CANADA TO REGISTER HIGHEST CAGR IN AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET FROM 2023 TO 2028
TABLE 100 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 101 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2023–2028 (USD MILLION)
12.2 NORTH AMERICA
12.2.1 NORTH AMERICA: RECESSION IMPACT
FIGURE 55 NORTH AMERICA: SNAPSHOT OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
TABLE 102 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 103 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
TABLE 104 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 105 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 106 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 107 NORTH AMERICA: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
12.2.2 US
12.2.2.1 Booming e-commerce industry
12.2.3 CANADA
12.2.3.1 Expanding automotive industry
12.2.4 MEXICO
12.2.4.1 Rapid industrial developments
12.3 EUROPE
12.3.1 EUROPE: RECESSION IMPACT
FIGURE 56 EUROPE: SNAPSHOT OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
TABLE 108 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)

+44 20 8123 2220
info@marketpublishers.com

TABLE 109 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
TABLE 110 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 111 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 112 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 113 EUROPE: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
12.3.2 GERMANY
12.3.2.1 Rising demand for automated material handling equipment in automotive industry
12.3.3 UK
12.3.3.1 Rising adoption of warehouse automation solutions in various industries
12.3.4 FRANCE
12.3.4.1 Increased use in e-commerce industry
12.3.5 REST OF EUROPE
12.4 ASIA PACIFIC
12.4.1 ASIA PACIFIC: RECESSION IMPACT
FIGURE 57 ASIA PACIFIC: SNAPSHOT OF AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET
TABLE 114 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 115 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
TABLE 116 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 117 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 118 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 119 ASIA PACIFIC: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
12.4.2 CHINA
12.4.2.1 Expanding automotive and electronics industries
12.4.3 JAPAN
12.4.3.1 Thriving e-commerce industry
12.4.4 AUSTRALIA

12.4.4.1 Substantial adoption of automated material handling equipment in manufacturing sector
12.4.5 INDIA
12.4.5.1 Rapid industrial development
12.4.6 MALAYSIA
12.4.6.1 Growing use of automated material handling equipment in warehouses of e-commerce companies
12.4.7 TAIWAN
12.4.7.1 Rising adoption of automation technologies in industrial manufacturing
12.4.8 INDONESIA
12.4.8.1 Healthy growth of e-commerce industry
12.4.9 SOUTH KOREA
12.4.9.1 Technological advancements and high focus on development of quality products in semiconductor & electronics industry
12.4.10 REST OF ASIA PACIFIC
12.5 ROW
12.5.1 ROW: RECESSION IMPACT
TABLE 120 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2019–2022 (USD MILLION)
TABLE 121 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY PRODUCT, 2023–2028 (USD MILLION)
TABLE 122 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)
TABLE 123 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)
TABLE 124 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 125 ROW: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY REGION, 2023–2028 (USD MILLION)
12.5.2 SOUTH AMERICA
12.5.2.1 Rising adoption of warehouse automation solutions in various industries
12.5.3 MIDDLE EAST
TABLE 126 MIDDLE EAST: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 127 MIDDLE EAST: AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
12.5.3.1 UAE
12.5.3.1.1 Rising demand in manufacturing and healthcare sectors
12.5.3.2 Saudi Arabia

+44 20 8123 2220
info@marketpublishers.com

12.5.3.2.1 Constant developments in aviation, food & beverage, and pharmaceutical industries
12.5.3.3 Rest of Middle East
12.5.4 AFRICA
12.5.4.1 High focus on warehouse automation

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW
13.2 STRATEGIES ADOPTED BY KEY PLAYERS
TABLE 128 OVERVIEW OF STRATEGIES ADOPTED BY AUTOMATED MATERIAL HANDLING EQUIPMENT VENDORS
13.3 REVENUE ANALYSIS OF TOP COMPANIES
FIGURE 58 FIVE-YEAR REVENUE ANALYSIS OF TOP FIVE PLAYERS IN AGV MARKET
FIGURE 59 FIVE-YEAR REVENUE ANALYSIS OF TOP TWO PLAYERS IN ASRS MARKET
13.4 MARKET SHARE ANALYSIS
TABLE 129 AGV MARKET SHARE ANALYSIS (2022)
FIGURE 60 AGV MARKET: SHARE OF KEY PLAYERS
TABLE 130 ASRS MARKET SHARE ANALYSIS (2022)
FIGURE 61 ASRS MARKET: SHARE OF KEY PLAYERS
13.5 COMPETITIVE EVALUATION QUADRANT
13.5.1 STARS
13.5.2 EMERGING LEADERS
13.5.3 PERVASIVE PLAYERS
13.5.4 PARTICIPANTS
FIGURE 62 AGV MARKET (GLOBAL): COMPETITIVE EVALUATION QUADRANT, 2022
FIGURE 63 ASRS MARKET (GLOBAL): COMPETITIVE EVALUATION QUADRANT, 2022
13.6 SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION QUADRANT
13.6.1 PROGRESSIVE COMPANIES
13.6.2 RESPONSIVE COMPANIES
13.6.3 DYNAMIC COMPANIES
13.6.4 STARTING BLOCKS
FIGURE 64 AGV MARKET (GLOBAL): SME EVALUATION QUADRANT, 2022
FIGURE 65 ASRS MARKET (GLOBAL): SME EVALUATION QUADRANT, 2022

+44 20 8123 2220
info@marketpublishers.com

13.7 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: COMPANY FOOTPRINT
TABLE 131 COMPANY FOOTPRINT
TABLE 132 PRODUCT: COMPANY FOOTPRINT
TABLE 133 INDUSTRY: COMPANY FOOTPRINT
TABLE 134 REGION: COMPANY FOOTPRINT
13.8 COMPETITIVE BENCHMARKING
TABLE 135 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: LIST OF KEYS STARTUPS/SMES
TABLE 136 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES
13.9 COMPETITIVE SCENARIO
TABLE 137 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: PRODUCT LAUNCHES, 2021?2022
TABLE 138 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: DEALS, 2020?2022
TABLE 139 AUTOMATED MATERIAL HANDLING EQUIPMENT MARKET: OTHERS, 2022

14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats)
14.1 KEY PLAYERS
14.1.1 DAIFUKU
TABLE 140 DAIFUKU: COMPANY OVERVIEW
FIGURE 66 DAIFUKU: COMPANY SNAPSHOT
TABLE 141 DAIFUKU: PRODUCTS OFFERED
TABLE 142 DAIFUKU: DEALS
TABLE 143 DAIFUKU: OTHERS
14.1.2 KION
TABLE 144 KION: COMPANY OVERVIEW
FIGURE 67 KION: COMPANY SNAPSHOT
TABLE 145 KION: PRODUCTS OFFERED
TABLE 146 KION: DEALS
TABLE 147 KION: OTHERS
14.1.3 SSI SCHAEFER
TABLE 148 SSI SCHAEFER: COMPANY OVERVIEW
TABLE 149 SSI SCHAEFER: PRODUCTS OFFERED

+44 20 8123 2220
info@marketpublishers.com

TABLE 150 SSI SCHAEFER: OTHERS
14.1.4 TOYOTA INDUSTRIES
TABLE 151 TOYOTA INDUSTRIES: COMPANY OVERVIEW
FIGURE 68 TOYOTA INDUSTRIES: COMPANY SNAPSHOT
TABLE 152 TOYOTA INDUSTRIES: PRODUCTS OFFERED
TABLE 153 TOYOTA INDUSTRIES: PRODUCT LAUNCHES
TABLE 154 TOYOTA INDUSTRIES: DEALS
TABLE 155 TOYOTA INDUSTRIES: OTHERS
14.1.5 HONEYWELL INTERNATIONAL
TABLE 156 HONEYWELL INTERNATIONAL: COMPANY OVERVIEW
FIGURE 69 HONEYWELL INTERNATIONAL: COMPANY SNAPSHOT
TABLE 157 HONEYWELL INTERNATIONAL: PRODUCTS OFFERED
14.1.6 HYSTER-YALE MATERIAL HANDLING
TABLE 158 HYSTER-YALE MATERIAL HANDLING: COMPANY OVERVIEW
FIGURE 70 HYSTER-YALE MATERIAL HANDLING: COMPANY SNAPSHOT
TABLE 159 HYSTER-YALE MATERIAL HANDLING: PRODUCTS OFFERED
TABLE 160 HYSTER-YALE MATERIAL HANDLING: PRODUCT LAUNCHES
TABLE 161 HYSTER-YALE OTHERS
14.1.7 JUNGHEINRICH
TABLE 162 JUNGHEINRICH: COMPANY OVERVIEW
FIGURE 71 JUNGHEINRICH: COMPANY SNAPSHOT
TABLE 163 JUNGHEINRICH: PRODUCTS OFFERED
TABLE 164 JUNGHEINRICH: DEALS
TABLE 165 JUNGHEINRICH: OTHERS
14.1.8 HANWHA
TABLE 166 HANWHA: COMPANY OVERVIEW
FIGURE 72 HANWHA: COMPANY SNAPSHOT
TABLE 167 HANWHA: PRODUCTS OFFERED
TABLE 168 HANWHA: DEALS
TABLE 169 HANWHA: OTHERS
14.1.9 JBT
TABLE 170 JBT: COMPANY OVERVIEW
FIGURE 73 JBT: COMPANY SNAPSHOT
TABLE 171 JBT: PRODUCTS OFFERED
14.1.10 KUKA
TABLE 172 KUKA: COMPANY OVERVIEW
FIGURE 74 KUKA: COMPANY SNAPSHOT
TABLE 173 KUKA: PRODUCTS OFFERED
TABLE 174 KUKA: OTHERS

+44 20 8123 2220
info@marketpublishers.com

14.1.11 BEUMER
TABLE 175 BEUMER: COMPANY OVERVIEW
TABLE 176 BEUMER: PRODUCTS OFFERED
TABLE 177 BEUMER: PRODUCT LAUNCHES
TABLE 178 BEUMER: DEALS
TABLE 179 BEUMER: OTHERS
14.1.12 KNAPP
TABLE 180 KNAPP: COMPANY OVERVIEW
TABLE 181 KNAPP: PRODUCTS OFFERED
TABLE 182 KNAPP: DEALS
TABLE 183 KNAPP: OTHERS
14.1.13 MURATA MACHINERY
TABLE 184 MURATA MACHINERY: COMPANY OVERVIEW
TABLE 185 MURATA MACHINERY: PRODUCTS OFFERED
TABLE 186 MURATA MACHINERY: DEALS
TABLE 187 MURATA MACHINERY: OTHERS
14.1.14 TGW LOGISTICS
TABLE 188 TGW LOGISTICS: COMPANY OVERVIEW
TABLE 189 TGW LOGISTICS: PRODUCTS OFFERED
TABLE 190 TGW LOGISTICS: PRODUCT LAUNCHES
TABLE 191 TGW LOGISTICS: DEALS
TABLE 192 TGW LOGISTICS: OTHERS
14.1.15 VIASTORE
TABLE 193 VIASTORE: COMPANY OVERVIEW
TABLE 194 VIASTORE: PRODUCTS OFFERED
TABLE 195 VIASTORE: DEALS
TABLE 196 VIASTORE: OTHERS
14.2 OTHER PLAYERS
14.2.1 ADDVERB TECHNOLOGIES
TABLE 197 ADDVERB TECHNOLOGIES: COMPANY OVERVIEW
14.2.2 AUTOCRIB
TABLE 198 AUTOCRIB: COMPANY OVERVIEW
14.2.3 AUTOMATION LOGISTIC
TABLE 199 AUTOMATION LOGISTIC: COMPANY OVERVIEW
14.2.4 AVANCON
TABLE 200 AVANCON: COMPANY OVERVIEW
14.2.5 FERRETTO
TABLE 201 FERRETTO: COMPANY OVERVIEW
14.2.6 GRABIT

+44 20 8123 2220
info@marketpublishers.com

TABLE 202 GRABIT: COMPANY OVERVIEW
14.2.7 INVATA INTRALOGISTICS
TABLE 203 INVATA INTRALOGISTICS: COMPANY OVERVIEW
14.2.8 INVIA ROBOTICS
TABLE 204 INVIA ROBOTICS: COMPANY OVERVIEW
14.2.9 LOCUS ROBOTICS
TABLE 205 LOCUS ROBOTICS: COMPANY OVERVIEW
14.2.10 MEIDEN AMERICA
TABLE 206 MEIDEN AMERICA: COMPANY OVERVIEW
14.2.11 MOBILE INDUSTRIAL ROBOTS
TABLE 207 MOBILE INDUSTRIAL ROBOTS: COMPANY OVERVIEW
14.2.12 WESTFALIA TECHNOLOGIES
TABLE 208 WESTFALIA TECHNOLOGIES: COMPANY OVERVIEW
*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

15 ADJACENT MARKET

15.1 RFID MARKET
15.2 INTRODUCTION
FIGURE 75 RFID MARKET, BY OFFERING
FIGURE 76 TAGS SEGMENT TO ACCOUNT FOR LARGEST SHARE OF RFID MARKET DURING FORECAST PERIOD
TABLE 209 RFID MARKET, BY OFFERING, 2018–2021 (USD MILLION)
TABLE 210 RFID MARKET, BY OFFERING, 2022–2030 (USD MILLION)
15.3 TAGS
15.3.1 USED TO IDENTIFY ASSETS OR PERSON
15.4 READERS
15.4.1 FIXED READER
15.4.1.1 Rugged and cost-efficient
15.4.2 HANDHELD READER
15.4.2.1 Mainly adopted due to mobility feature
15.5 SOFTWARE & SERVICES
15.5.1 VITAL FOR DATA ANALYSIS AND CLOUD-BASED DATA STORAGE

16 APPENDIX

16.1 INSIGHTS FROM INDUSTRY EXPERTS

+44 20 8123 2220
info@marketpublishers.com

16.2 DISCUSSION GUIDE
16.3 KNOWLEDGESTORE: MARKETSANDMARKETS’ SUBSCRIPTION PORTAL
16.4 CUSTOMIZATION OPTIONS
16.5 RELATED REPORTS
16.6 AUTHOR DETAILS

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Automated Material Handling Equipment Market by Product (Robots, ASRS, Conveyors And Sortation Systems, Cranes, WMS, AGV), System Type (Unit Load, Bulk Load), Industry (Automotive, E-Commerce, Food & Beverage) and Region - Global Forecast to 2028

Product link: https://marketpublishers.com/r/M97B7F0AECFEN.html

Price: US$ 4,950.00 (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/M97B7F0AECFEN.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

Custumer signature _____

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

+44 20 8123 2220
info@marketpublishers.com

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