Automated Guided Vehicle Market: By Navigation (Laser, Magnet, Wire, Others), By Use (Kitting, Staging, Order Picking, Others), By Application - Forecast (2016-2021)

Description:
Automated Guided Vehicles (AGVs) are autonomous mobile robotic driverless vehicles employed in industries for material handling. The first AGV was developed by A.M. Barrett, Jr. in 1954 which navigated by following wires mounted in factory ceiling. This was employed in his industry, Barrett Electronics. Now the technology is developed to perform multiple tasks and equipped with 3D vision guidance system. With the introduction and development of industry automation or Computer Integrated Manufacturing (CIM) in the modern era these found a major place in manufacturing industries and distribution centers.

Nowadays battery-less AGV is gaining the market due to battery free operation and relief from charging. These AGVs can work for longer shifts without compromise in their efficiency and reliability. Thereby, increasing the Return on Investment (RoI) and decreasing operational costs. Few AGV OEMs are developing and manufacturing products with voice directed picking system that enables them to take order on floor and perform the tasks accordingly.

The key application of AGVs include:
parts-to-line, kitting/picking, end of line, replenishment, staging/sortation, cross docking, trash removal and so on. The AGVs are instructed with parameters like product name, delivery spot, route, quantity of delivery and so on. These instructions are then handled by logistics system and correspondingly the task is performed by them. The market is further segmented based on navigation/guidance, vehicle type and end user industries. Navigation vertical is further categorized into laser guidance, magnetic guidance, inductive guidance, GPS and 3D vision guidance. vehicle type includes: forklifts/pellet, tow, clamp, unit load and a few more.

The end user industries include:

A few of them include:
ABB Ltd. (Switzerland),
Siemens AG (Germany),
Doerfer Corporation (U.S),
Egemin Automation Inc. (U.S),
Rockwell Automation, Inc. (U.S),
Mitsubishi Corporation (Japan),
America In Motion, Inc. (U.S),
Swisslog Holding AG (Germany).

Contents:
1. Automated Guided Vehicle - Market Overview
2. Executive Summary
3. Automated Guided Vehicle - Market Landscape
   3.1. Market Share Analysis
   3.2. Comparative Analysis
   3.2.1. Product Benchmarking
   3.2.2. Patent Analysis
   3.2.3. End User Profiling
   3.2.4. Top 5 Financials Analysis
4. Automated Guided Vehicle - Market Forces
   4.1. Market Drivers
   4.2. Market Constraints
4.3. Market Challenges
4.4. Attractiveness of Automated Guided Vehicle Market
  4.4.1. Power of Suppliers
  4.4.2. Power of Customers
  4.4.3. Threats of New Entrants
  4.4.4. Threats of Substitution
  4.4.5. Degree of Competition
5. Automated Guided Vehicle - Strategic Analysis
  5.1. Value Chain Analysis
  5.2. Pricing Analysis
  5.3. Opportunity Analysis
  5.4. Product/Market Life Cycle Analysis
  5.5. Suppliers and Distributors
  6.1. Laser Guidance
  6.2. Magnetic Guidance
  6.3. Inductive/Wire Guidance
  6.4. GPS
  6.5. 3D Vision Guidance
  6.6. Others
7. Automated Guided Vehicle Market - By Application
  7.1. Parts-To-Line
  7.2. Kitting/Picking
  7.3. End of Line
  7.4. Replenishment
  7.5. Staging/Sortation
  7.6. Cross Docking
  7.7. Trash Removal
  7.8. Others
8. Automated Guided Vehicle Market - By Vehicle Type
  8.1. Forklifts/Pellet
  8.2. Tow
  8.3. Clamp
  8.4. Unit Load
  8.5. Carts
  8.6. Heavy Burden Carrier
  8.7. Others
  9.1. Automotive Industry
  9.2. Manufacturing Industry
  9.3. Chemical and Pharmaceutical Industries
  9.4. Aerospace Industry
  9.5. Paper Industry
  9.6. Food and Beverage Industry
  9.7. Warehousing and distribution
  9.8. Others
10. Automated Guided Vehicle Market - By Region
  10.1. Americas
    10.1.1. U.S
    10.1.2. Canada
    10.1.3. Brazil
    10.1.4. Others
  10.2. Europe
    10.2.1. Germany
    10.2.2. Belgium
    10.2.3. France
    10.2.4. Others
  10.3. APAC
    10.3.1. China
    10.3.2. Japan
    10.3.3. Australia
    10.3.4. Others
  10.4. ROW
11. Market Entropy
11.1. New Product Launches
11.2. M&As, JVs, Collaborations, Partnership
12. Company Profiles
12.1. ABB Ltd.
12.2. Siemens AG
12.3. Doerfer Corporation
12.4. Egemin Automation Inc.
12.5. Rockwell Automation, Inc.
12.6. Mitsubishi Corporation
12.7. Swisslog Holding AG(KUKA AG)
12.8. America In Motion, Inc.
12.9. SSI Schaefer
12.10. Transbotics, Inc
12.11. Kiva Systems, Inc.
12.13. NDC Automation Pty., Ltd.
12.15. John Bean Technologies Corporation
12.16. AGV Electronics Engelbert and Jarl AB
12.17. Seegrid Corporation
12.18. DS Automation GmbH
12.20. KMH Systems Inc.
13. Appendix
13.1. Abbreviations
13.2. Sources
13.3. Research Methodology
13.4. Bibliography
13.5. Compilation of Expert Insights
13.6. Disclaimer

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