

Industry 5.0 Market by Technology (Digital Twin, AI in Manufacturing, Industrial Sensors, Augmented & Virtual Reality, Industrial 3D Printing, Robotics), Sustainability (Waste-to-Energy Conversion, Recycle, Material), Industry - Global Forecast to 2029

<https://marketpublishers.com/r/I5441ADFB3D1EN.html>

Date: February 2024

Pages: 223

Price: US\$ 4,950.00 (Single User License)

ID: I5441ADFB3D1EN

Abstracts

The global Industry 5.0 market was valued at USD 65.8 billion in 2024 and is estimated to reach USD 255.7 billion by 2029, registering a CAGR of 31.2% during the forecast period. Implementing Industry 5.0 principles enables different industries to leverage cutting-edge technologies such as artificial intelligence, the Internet of Things, advanced robotics, and big data analytics to optimize operations, improve product quality, and create new business models. Additionally, Industry 5.0 promotes collaboration and partnership among industry players, developing ecosystems and value networks that drive innovation and growth.

“AI in manufacturing technology is expected to grow at a significant CAGR during the forecast period.”

AI offers numerous advantages in the manufacturing process, revolutionizing traditional methods by introducing unprecedented levels of efficiency, precision, and adaptability. Through machine learning algorithms and predictive analytics, AI enables predictive maintenance, allowing manufacturers to anticipate equipment failures before they occur, thereby reducing downtime and optimizing production schedules. AI-driven automation streamlines repetitive tasks, increasing productivity and freeing up human resources for more complex and creative endeavors. Quality control benefits from AI's ability to detect defects with unmatched accuracy, ensuring that only flawless products reach the market. Furthermore, AI enhances supply chain management by optimizing inventory levels and forecasting demand, leading to cost savings and improved customer

satisfaction. Overall, AI empowers manufacturers to achieve higher levels of efficiency, flexibility, and competitiveness in an increasingly dynamic and data-driven industry landscape.

“Energy & Power segment is projected to contribute significant share in the industry 5.0 market.”

By integrating advanced digital technologies such as AI, IoT, and big data analytics, energy and power companies can optimize their operations in real time, enhancing grid management, asset performance, and energy distribution. Predictive maintenance enabled by Industry 5.0 technologies minimizes downtime and extends the lifespan of critical infrastructure, ensuring a reliable energy supply while reducing maintenance costs and environmental impact. Moreover, smart grid systems empowered by Industry 5.0 facilitate the integration of renewable energy sources and demand response programs, promoting sustainability and energy conservation. AI-driven predictive analytics improves energy forecasting accuracy, enabling more effective resource allocation and grid balancing.

“North America to dominate industry 5.0 market.”

In recent years, North America has witnessed several transformative initiatives aligned with the principles of Industry 5.0. Notable efforts include promoting automated manufacturing practices through initiatives like the National Institute of Standards and Technology's innovation programs related to manufacturing. Additionally, industry-academia collaborations, exemplified by partnerships between research institutions such as MIT and Stanford University with industry players, drive innovation in advanced technologies like artificial intelligence and robotics. Many manufacturing companies across North America have embarked on digital transformation journeys, embracing technologies such as cloud computing, big data analytics, and IoT sensors to optimize operations and enhance competitiveness. Moreover, regions like Silicon Valley, the Research Triangle Park, and the Greater Toronto Area have established themselves as advanced manufacturing hubs, fostering collaboration and innovation in the sector. These initiatives collectively embody the essence of Industry 5.0, integrating digital technologies with traditional manufacturing to drive efficiency, innovation, and competitiveness in North America's industrial landscape.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the industry 5.0 market place.

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 48%, Directors – 33%, and Others – 19%

By Region: North America– 35%, Europe – 18%, Asia Pacific– 40% and RoW- 7%

ABB (Switzerland), Honeywell International Inc (US), 3D Systems (US), Rockwell Automation (US), Siemens (Germany), and Emerson Electric Co (US), among others, are some of the key players in the industry 5.0 market.

The study includes an in-depth competitive analysis of these key players in the industry 5.0 market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the Industry 5.0 market by offering, deployment, technology, application, end-use industries, and region (North America, Europe, Asia Pacific, and RoW). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the industry 5.0 market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. New product and service launches, acquisitions, and recent developments associated with the industry 5.0 market. Competitive analysis of upcoming startups in the industry 5.0 market ecosystem is covered in this report.

Reasons to buy this report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall industry 5.0 market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

This new version of the report on the Industry 5.0 market includes the following:

Market size from 2020 to 2029

Average selling prices (ASPs) of industrial sensors (A technology segment of Industry 5.0) calculated by the weighted average method

Updated research assumptions and limitations

Information related to trends/disruptions impacting businesses of customers, as well as information on the ecosystem of industry 5.0, trade analysis, regulatory analyses, technology analysis, patents analysis, and case studies pertaining to the industry 5.0 market.

Updated financial information until 2023 (depending on the availability) for each listed company, which helps in the easy analysis of the present status of the profiled companies in terms of their financial strength, profitability, key revenue-generating regions/countries, and the highest revenue-generating business segments.

Recent developments that help assess market trends and growth strategies adopted by leading market players

Key manufacturers offering industry 5.0 solutions; top 25 manufacturers of industry 5.0, which are categorized into star, pervasive, emerging leader, and participant companies based on their performance on various parameters such as product footprint, focus on product innovations, and geographic footprint.

Market share analysis of various players operating in the industry 5.0 market for 2022

Small- and medium-sized enterprises (SME) matrix that brief some business strategies and product offerings of 15 SME players operating in the market, which are classified into four groups: progressive, dynamic, responsive companies, and starting blocks

Brief information regarding the competitive situations and trends in the Industry

5.0 market

The product, application, and geographic footprints of the top 25 manufacturers of industry 5.0 solutions

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the industry 5.0 market

Market Development: Comprehensive information about lucrative markets – the report analyses the industry 5.0 market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the industry 5.0 market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like ABB, Honeywell International Inc, 3D Systems, Rockwell Automation, Siemens, and Emerson Electric Co, among others in the industry 5.0 market.

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 INDUSTRY 5.0 MARKET SEGMENTATION

1.4.2 REGIONAL SCOPE

1.4.3 YEARS CONSIDERED

1.4.4 CURRENCY CONSIDERED

1.5 LIMITATIONS

1.6 STAKEHOLDERS

1.7 SUMMARY OF CHANGES

1.8 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 INDUSTRY 5.0 MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

2.1.1.1 Key industry insights

2.1.2 SECONDARY DATA

2.1.2.1 List of major secondary sources

2.1.2.2 Key data from secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Breakdown of primaries

2.1.3.2 Key data from primary sources

2.2 MARKET SIZE ESTIMATION METHODOLOGY

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: REVENUE GENERATED THROUGH SALES OF COLLABORATIVE ROBOTS

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to arrive at market size using bottom-up approach (demand side)

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to arrive at market size using top-down approach (supply side)

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 6 MARKET BREAKDOWN AND DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

FIGURE 7 INDUSTRY 5.0 MARKET: RESEARCH ASSUMPTIONS

2.5 APPROACH TO ANALYZE RECESSION IMPACT

2.6 RISK ASSESSMENT

TABLE 1 INDUSTRY 5.0 MARKET: RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 8 DIGITAL TWIN SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2029

FIGURE 9 ENERGY & POWER SEGMENT TO HOLD LARGEST MARKET SHARE IN 2029

FIGURE 10 AUTOMOTIVE SEGMENT TO DOMINATE INDUSTRY 5.0 MARKET DURING FORECAST PERIOD

FIGURE 11 NORTH AMERICA TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN INDUSTRY 5.0 MARKET

FIGURE 12 EMPHASIS ON HUMAN-MACHINE COLLABORATION LEVERAGING AUTOMATION TO CONTRIBUTE TO MARKET GROWTH

4.2 INDUSTRY 5.0 MARKET, BY TECHNOLOGY

FIGURE 13 INDUSTRIAL SENSORS SEGMENT TO HOLD LARGEST MARKET SHARE IN 2024

4.3 INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY

FIGURE 14 OIL & GAS SEGMENT TO HOLD LARGEST SHARE OF INDUSTRY 5.0 MARKET IN 2024

4.4 INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY

FIGURE 15 AUTOMOTIVE SEGMENT TO REGISTER HIGHEST CAGR BETWEEN 2024 AND 2029

4.5 INDUSTRY 5.0 MARKET, BY COUNTRY

FIGURE 16 NORTH AMERICA TO EXHIBIT HIGHEST CAGR IN INDUSTRY 5.0 MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 17 INDUSTRY 5.0 MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Rising adoption of AI and robotics in manufacturing and production processes

5.2.1.2 Surging focus on implementing green technologies for sustainable manufacturing

5.2.1.3 Increasing government spending on 3D printing technologies

FIGURE 18 INDUSTRY 5.0 MARKET: DRIVERS AND THEIR IMPACT

5.2.2 RESTRAINTS

5.2.2.1 Lack of proficient workforce acquainted with advanced manufacturing equipment

5.2.2.2 Limited adoption of Industry 5.0 solutions among startups due to high implementation costs

5.2.2.3 Health implications of excessive use of AR and VR

FIGURE 19 INDUSTRY 5.0 MARKET: RESTRAINTS AND THEIR IMPACT

5.2.3 OPPORTUNITIES

5.2.3.1 Proliferation of 3D printing technology in manufacturing of medical equipment and customized drugs

5.2.3.2 Increasing investments in infrastructure development projects

FIGURE 20 INDUSTRY 5.0 MARKET: OPPORTUNITIES AND THEIR IMPACT

5.2.4 CHALLENGES

5.2.4.1 Need for continuous technological advancements

5.2.4.2 High costs associated with deployment of VR technology

FIGURE 21 INDUSTRY 5.0 MARKET: CHALLENGES AND THEIR IMPACT

5.3 SUPPLY CHAIN ANALYSIS

FIGURE 22 INDUSTRY 5.0 MARKET: SUPPLY CHAIN ANALYSIS

5.4 MARKET/ECOSYSTEM MAP

TABLE 2 INDUSTRY 5.0 MARKET: ROLE OF COMPANIES IN ECOSYSTEM

5.5 INVESTMENT AND FUNDING SCENARIO

FIGURE 23 FUNDS AUTHORIZED FOR INDIAN AI STARTUP COMPANIES FOR TECHNOLOGICAL ADVANCEMENTS (USD MILLION)

5.6 FUNDING, BY USE CASE

FIGURE 24 OVERVIEW OF FUNDING TO INDIAN AI STARTUPS IN TECHNOLOGIES BY VENTURE CAPITALISTS IN 2022

5.7 PRICING ANALYSIS

TABLE 3 AVERAGE SELLING PRICE (ASP) OF DIGITAL TEMPERATURE SENSORS

OFFERED BY TWO MAJOR PLAYERS

FIGURE 25 AVERAGE SELLING PRICE (ASP) TREND OF DIGITAL TEMPERATURE SENSORS OFFERED BY TWO MAJOR PLAYERS

5.7.1 AVERAGE SELLING PRICE (ASP) TREND OF INDUSTRIAL SENSORS, 2020–2029

FIGURE 26 AVERAGE SELLING PRICE (ASP) TREND OF INDUSTRIAL SENSORS, 2020–2029

5.8 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 27 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.9 TECHNOLOGY ANALYSIS

5.9.1 KEY TECHNOLOGIES

5.9.1.1 Artificial intelligence (AI)

5.9.1.2 Internet of things (IoT)

5.9.2 COMPLEMENTARY TECHNOLOGIES

5.9.2.1 Blockchain

5.9.2.2 Augmented reality (AR) and virtual reality (VR)

5.9.3 ADJACENT TECHNOLOGY

5.9.3.1 Green technology

5.10 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 INDUSTRY 5.0 MARKET: IMPACT OF PORTER'S FIVE FORCES

5.10.1 THREAT OF NEW ENTRANTS

5.10.2 THREAT OF SUBSTITUTES

5.10.3 BARGAINING POWER OF SUPPLIERS

5.10.4 BARGAINING POWER OF BUYERS

5.10.5 INTENSITY OF COMPETITIVE RIVALRY

5.11 KEY STAKEHOLDERS AND BUYING CRITERIA

FIGURE 28 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 INDUSTRIES

TABLE 5 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 INDUSTRIES

5.11.1 BUYING CRITERIA

FIGURE 29 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES

TABLE 6 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES

5.12 CASE STUDY ANALYSIS

5.12.1 LEMATIC DEVELOPED SAAS SOLUTION TO PROVIDE ACCESS TO CRITICAL INFORMATION

5.12.2 NBC BEARINGS ESTABLISHED CONNECTED SMART FACTORY TO STREAMLINE INFORMATION FLOW

TABLE 7 IMPLEMENTATION OF FULLY AUTOMATED PRODUCTION LINE AT FORD

TABLE 8 REFINERY IN NORTH AMERICA IMPROVED VACUUM TOWER-LEVEL MEASUREMENT WITH SIEMENS ROSEMOUNT 3051S ERS AND THERMAL RANGE EXPANDER

5.13 TRADE ANALYSIS

5.13.1 IMPORT SCENARIO

FIGURE 30 IMPORT VALUES, BY KEY COUNTRY, 2018–2022 (USD MILLION)

5.13.2 EXPORT SCENARIO

FIGURE 31 EXPORT VALUES, BY KEY COUNTRY, 2018–2022 (USD MILLION)

5.14 PATENT ANALYSIS

FIGURE 32 INDUSTRY 5.0 MARKET: PATENTS APPLIED AND GRANTED, 2013–2023

TABLE 9 TOP PATENT OWNERS IN US, 2013–2023

TABLE 10 INDUSTRY 5.0 MARKET: LIST OF FEW PATENTS RELATED TO INDUSTRY 5.0

5.15 KEY CONFERENCES AND EVENTS, 2024

TABLE 11 INDUSTRY 5.0 MARKET: LIST OF CONFERENCES AND EVENTS, 2024

5.16 REGULATORY LANDSCAPE

5.16.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES AND OTHER ORGANIZATIONS

TABLE 15 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.16.2 STANDARDS AND REGULATIONS

TABLE 16 STANDARDS RELATED TO INDUSTRY 5.0

6 INDUSTRY 5.0 MARKET, BY SUSTAINABILITY

6.1 INTRODUCTION

TABLE 17 INDUSTRY 5.0 MARKET, BY SUSTAINABILITY, 2020–2023 (USD MILLION)

TABLE 18 INDUSTRY 5.0 MARKET, BY SUSTAINABILITY, 2024–2029 (USD MILLION)

6.2 WASTE-TO-ENERGY CONVERSION

6.2.1 INCREASING NEED FOR SUSTAINABLE WASTE MANAGEMENT

PRACTICES TO BOOST SEGMENTAL GROWTH

6.3 RECYCLED MATERIALS

6.3.1 RISING AWARENESS OF ENVIRONMENTAL IMPACT OF WASTE TO ACCELERATE ADOPTION OF RECYCLED MATERIALS

6.4 BIO-BASED MATERIALS

6.4.1 GROWING CONCERNS OVER CLIMATE CHANGE TO PROPEL ADOPTION OF BIO-BASED MATERIALS

7 INDUSTRY 5.0 MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

FIGURE 33 INDUSTRY 5.0 MARKET, BY TECHNOLOGY

FIGURE 34 DIGITAL TWIN SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 19 INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 20 INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

7.2 DIGITAL TWIN

7.2.1 INTEGRATION OF AI AND ML WITH DIGITAL TWIN TECHNOLOGY TO CONTRIBUTE TO MARKET GROWTH

7.2.2 DIGITAL TWIN, BY APPLICATION

7.2.2.1 Product design and development

7.2.2.2 Machine and equipment health monitoring

7.2.2.3 Structural health monitoring

7.2.2.4 Condition monitoring

7.2.2.5 Predictive maintenance

7.2.2.6 Dynamic optimization

TABLE 21 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 22 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 23 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 24 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 25 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 26 DIGITAL TWIN: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

7.3 INDUSTRIAL 3D PRINTING

7.3.1 EMPHASIS ON SIMPLIFYING MANUFACTURING OF COMPLEX PARTS AND USE OF SUSTAINABLE MATERIALS TO BOOST SEGMENTAL GROWTH

7.3.2 INDUSTRIAL 3D PRINTING, BY OFFERING

7.3.2.1 Printers

7.3.2.2 Materials

7.3.2.3 Software

7.3.2.4 Services

7.3.3 INDUSTRIAL 3D PRINTING, BY APPLICATION

7.3.3.1 Tooling

7.3.3.2 Heavy equipment and machinery

7.3.3.3 Robotics

7.3.4 INDUSTRIAL 3D PRINTING, BY PROCESS

7.3.4.1 Binder jetting

7.3.4.2 Direct energy deposition

7.3.4.3 Material extrusion

7.3.4.4 Material jetting

7.3.4.5 Powder bed fusion

7.3.4.6 Sheet lamination

7.3.4.7 Vat photopolymerization

7.3.5 INDUSTRIAL 3D PRINTING, BY TECHNOLOGY

TABLE 27 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 28 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 29 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 30 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 31 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 32 INDUSTRIAL 3D PRINTING: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

7.4 AI IN MANUFACTURING

7.4.1 RELIANCE ON AI TECHNOLOGY TO REVOLUTIONIZE MANUFACTURING OPERATIONS TO PROPEL MARKET

7.4.2 AI IN MANUFACTURING, BY OFFERING

7.4.2.1 Hardware

7.4.2.2 Software

7.4.3 AI IN MANUFACTURING, BY TECHNOLOGY

7.4.3.1 Computer vision

7.4.3.2 Deep learning

7.4.3.3 Natural language processing (NLP)

7.4.3.4 Context awareness

7.4.4 AI IN MANUFACTURING, BY APPLICATION

7.4.4.1 Predictive maintenance

7.4.4.2 Machinery inspection

7.4.4.3 Production planning

7.4.4.4 Field services

7.4.4.5 Quality control

TABLE 33 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 34 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 35 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 36 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 37 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 38 AI IN MANUFACTURING: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

7.5 ROBOTICS

7.5.1 COLLABORATIVE ROBOTS

7.5.1.1 Ability to work alongside humans and minimize long-term production costs to boost demand for cobots

7.5.2 EXOSKELETONS

7.5.2.1 Focus on improving operational efficiency during production processes to fuel deployment of exoskeletons

TABLE 39 ROBOTICS: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 40 ROBOTICS: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 41 ROBOTICS: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 42 ROBOTICS: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 43 ROBOTICS: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 44 ROBOTICS: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

TABLE 45 ROBOTICS: INDUSTRY 5.0 MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 46 ROBOTICS: INDUSTRY 5.0 MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 47 COLLABORATIVE ROBOT (COBOT) MARKET, BY PAYLOAD, 2019–2022 (UNITS)

TABLE 48 COLLABORATIVE ROBOT (COBOT) MARKET, BY PAYLOAD, 2023–2029 (UNITS)

7.6 INDUSTRIAL SENSORS

7.6.1 INTEGRATION OF INDUSTRIAL SENSORS WITH ADVANCED CONNECTIVITY SOLUTIONS TO FUEL MARKET GROWTH

7.6.2 INDUSTRIAL SENSORS, BY TYPE

7.6.2.1 Wired

7.6.2.2 Wireless

TABLE 49 INDUSTRIAL SENSORS: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 50 INDUSTRIAL SENSORS: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 51 INDUSTRIAL SENSORS: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 52 INDUSTRIAL SENSORS: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

7.7 AUGMENTED REALITY & VIRTUAL REALITY (AR & VR)

7.7.1 GROWING DEMAND FOR AR & VR TECHNOLOGIES IN MANUFACTURING SECTOR TO DRIVE MARKET

7.7.2 AUGMENTED REALITY & VIRTUAL REALITY, BY TECHNOLOGY

7.7.2.1 Augmented reality

7.7.2.2 Virtual reality

7.7.3 AUGMENTED REALITY & VIRTUAL REALITY, BY OFFERING

7.7.3.1 Hardware

7.7.3.2 Software

7.7.4 AUGMENTED REALITY & VIRTUAL REALITY, BY DEVICE TYPE

7.7.4.1 Head-mounted displays (HMDs)

7.7.4.2 Head-up displays (HUDs)

TABLE 53 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 54 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET,

BY REGION, 2024–2029 (USD MILLION)

TABLE 55 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 56 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

TABLE 57 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 58 AUGMENTED REALITY & VIRTUAL REALITY: INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

7.8 5G INDUSTRIAL IOT

7.8.1 RISING DEMAND FOR RELIABLE AND LOW-LATENCY NETWORKS TO BOOST SEGMENTAL GROWTH

TABLE 59 5G INDUSTRIAL IOT: INDUSTRY 5.0 MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 60 5G INDUSTRIAL IOT: INDUSTRY 5.0 MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

8 INDUSTRY 5.0 MARKET, BY INDUSTRY

8.1 INTRODUCTION

FIGURE 35 INDUSTRY 5.0 MARKET, BY INDUSTRY

8.2 PROCESS INDUSTRIES

FIGURE 36 ENERGY & POWER SEGMENT TO HOLD LARGEST SHARE OF INDUSTRY 5.0 MARKET FOR PROCESS INDUSTRIES IN 2029

TABLE 61 INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2020–2023 (USD MILLION)

TABLE 62 INDUSTRY 5.0 MARKET, BY PROCESS INDUSTRY, 2024–2029 (USD MILLION)

8.2.1 ENERGY & POWER

8.2.1.1 Need for efficient energy and power management to lead to adoption of automation tools

TABLE 63 ENERGY & POWER: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 64 ENERGY & POWER: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.2 OIL & GAS

8.2.2.1 Adoption of sensors and automation solutions by oil & gas companies to drive market

TABLE 65 OIL & GAS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD

MILLION)

TABLE 66 OIL & GAS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.3 FOOD & BEVERAGES

8.2.3.1 Requirement for increased productivity and reduced downtime in food & beverage manufacturing plants to fuel segmental growth

TABLE 67 FOOD & BEVERAGES: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 68 FOOD & BEVERAGES: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.4 MEDICAL

8.2.4.1 Deployment of automated systems by pharma companies to increase operational efficiency to boost market growth

TABLE 69 MEDICAL: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 70 MEDICAL: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.5 CHEMICALS

8.2.5.1 Reliance of chemical manufacturers on automation solutions to maintain ideal inventory levels to contribute to market growth

TABLE 71 CHEMICALS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 72 CHEMICALS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.6 METALS & MINING

8.2.6.1 Deployment of enabling technologies to optimize metal production and automate heavy machinery to fuel segmental growth

TABLE 73 METALS & MINING: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 74 METALS & MINING: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.2.7 OTHER PROCESS INDUSTRIES

TABLE 75 OTHER PROCESS INDUSTRIES: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 76 OTHER PROCESS INDUSTRIES: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.3 DISCRETE INDUSTRIES

FIGURE 37 AUTOMOTIVE SEGMENT TO DOMINATE INDUSTRY 5.0 MARKET FOR DISCRETE INDUSTRIES FROM 2024 TO 2029

TABLE 77 INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2020–2023 (USD MILLION)

TABLE 78 INDUSTRY 5.0 MARKET, BY DISCRETE INDUSTRY, 2024–2029 (USD MILLION)

8.3.1 AUTOMOTIVE

8.3.1.1 Deployment of cobots in automotive manufacturing plants to contribute to market growth

TABLE 79 AUTOMOTIVE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 80 AUTOMOTIVE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.3.2 AEROSPACE

8.3.2.1 Deployment of AI technologies to detect aerospace and defense machinery faults to propel market

TABLE 81 AEROSPACE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 82 AEROSPACE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.3.3 SEMICONDUCTOR & ELECTRONICS

8.3.3.1 Adoption of manufacturing solutions to strengthen semiconductor and electronics supply chain to drive market

TABLE 83 SEMICONDUCTOR & ELECTRONICS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 84 SEMICONDUCTOR & ELECTRONICS: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

8.3.4 OTHER DISCRETE INDUSTRIES

9 INDUSTRY 5.0 MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 38 INDUSTRY 5.0 MARKET, BY REGION

TABLE 85 INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 86 INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

9.2 NORTH AMERICA

9.2.1 RECESSION IMPACT ON MARKET IN NORTH AMERICA

FIGURE 39 NORTH AMERICA: INDUSTRY 5.0 MARKET SNAPSHOT

TABLE 87 NORTH AMERICA: INDUSTRY 5.0 MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 88 NORTH AMERICA: INDUSTRY 5.0 MARKET, BY COUNTRY, 2024–2029

(USD MILLION)

TABLE 89 NORTH AMERICA: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 90 NORTH AMERICA: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

9.2.2 US

9.2.2.1 Increasing adoption of automation solutions across various industries to drive market

9.2.3 CANADA

9.2.3.1 Growing emphasis on innovation of food & beverage processing activities to drive market

9.2.4 MEXICO

9.2.4.1 Presence of well-established manufacturing sector to contribute to market growth

9.3 EUROPE

9.3.1 RECESSION IMPACT ON MARKET IN EUROPE

FIGURE 40 EUROPE: INDUSTRY 5.0 MARKET SNAPSHOT

TABLE 91 EUROPE: INDUSTRY 5.0 MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 92 EUROPE: INDUSTRY 5.0 MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 93 EUROPE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 94 EUROPE: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

9.3.2 UK

9.3.2.1 Thriving community of SMEs and startups working on advanced manufacturing technologies to drive market

9.3.3 GERMANY

9.3.3.1 Deployment of Industry 5.0 technologies in automotive and electronics manufacturing to propel market

9.3.4 FRANCE

9.3.4.1 Investments in digital revolution projects to contribute to market growth

9.3.5 REST OF EUROPE

9.4 ASIA PACIFIC

9.4.1 RECESSION IMPACT ON MARKET IN ASIA PACIFIC

FIGURE 41 ASIA PACIFIC: INDUSTRY 5.0 MARKET SNAPSHOT

TABLE 95 ASIA PACIFIC: INDUSTRY 5.0 MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 96 ASIA PACIFIC: INDUSTRY 5.0 MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 97 ASIA PACIFIC: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 98 ASIA PACIFIC: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

9.4.2 CHINA

9.4.2.1 Government initiatives to boost industrialization to fuel market growth

9.4.3 JAPAN

9.4.3.1 Advancements in robotics and strong technological base to support market growth

9.4.4 INDIA

9.4.4.1 Deployment of advanced technologies to support industrial revolution to support market growth

9.4.5 REST OF ASIA PACIFIC

9.5 REST OF THE WORLD (ROW)

9.5.1 RECESSION IMPACT ON MARKET IN ROW

TABLE 99 ROW: INDUSTRY 5.0 MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 100 ROW: INDUSTRY 5.0 MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 101 ROW: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2020–2023 (USD MILLION)

TABLE 102 ROW: INDUSTRY 5.0 MARKET, BY TECHNOLOGY, 2024–2029 (USD MILLION)

9.5.2 SOUTH AMERICA

9.5.2.1 Growing adoption of emerging technologies in industries to drive market

9.5.3 MIDDLE EAST & AFRICA

9.5.3.1 Implementation of industrial automation in oil & gas and mining facilities to propel market

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

TABLE 103 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN INDUSTRY 5.0 MARKET, 2021–2023

10.2 MARKET SHARE ANALYSIS (INDUSTRIAL SENSORS)

FIGURE 42 INDUSTRY 5.0: MARKET SHARE ANALYSIS (INDUSTRIAL SENSORS), 2022

TABLE 104 INDUSTRIAL SENSORS MARKET: DEGREE OF COMPETITION

10.3 5-YEAR REVENUE ANALYSIS OF TOP PLAYERS IN INDUSTRIAL SENSOR

MARKET

FIGURE 43 REVENUE ANALYSIS OF TOP PLAYERS IN INDUSTRIAL SENSOR MARKET, 2018–2022

10.4 COMPANY VALUATION AND FINANCIAL METRICS

FIGURE 44 COMPANY VALUATION (USD BILLION), 2022

FIGURE 45 FINANCIAL METRICS (EV/EBITDA), 2022

10.5 BRAND/PRODUCT COMPARISON

FIGURE 46 BRAND/PRODUCT COMPARISON

10.6 COMPANY EVALUATION MATRIX: KEY PLAYERS

10.6.1 STARS

10.6.2 EMERGING LEADERS

10.6.3 PERVASIVE PLAYERS

10.6.4 PARTICIPANTS

FIGURE 47 INDUSTRIAL SENSORS MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

10.6.5 COMPANY FOOTPRINT

TABLE 105 OVERALL COMPANY FOOTPRINT

TABLE 106 COMPANY SENSOR TYPE OFFERING FOOTPRINT

TABLE 107 COMPANY INDUSTRY FOOTPRINT

TABLE 108 COMPANY REGION FOOTPRINT

10.7 COMPANY EVALUATION MATRIX: START-UPS/SMES

10.7.1 PROGRESSIVE COMPANIES

10.7.2 RESPONSIVE COMPANIES

10.7.3 DYNAMIC COMPANIES

10.7.4 STARTING BLOCKS

FIGURE 48 INDUSTRIAL SENSOR MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2023

10.7.5 COMPETITIVE BENCHMARKING

TABLE 109 INDUSTRIAL SENSOR MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

TABLE 110 INDUSTRIAL SENSOR MARKET: LIST OF KEY START-UPS/SMES

10.8 COMPETITIVE SCENARIOS AND TRENDS

10.8.1 RECENT DEVELOPMENTS

10.8.1.1 Product launches

TABLE 111 INDUSTRY 5.0 MARKET: PRODUCT LAUNCHES, MARCH 2023–DECEMBER 2023

10.8.1.2 Deals

TABLE 112 INDUSTRY 5.0 MARKET: DEALS, JUNE 2021–NOVEMBER 2023

10.8.1.3 Others

TABLE 113 INDUSTRY 5.0 MARKET: OTHERS, MAY 2022–APRIL 2023**11 COMPANY PROFILES****11.1 KEY PLAYERS**

(Business overview, Products offered, Products/Solutions/Services offered, Recent developments, Product launches, Deals, MnM view, Key Strengths/Right to win, Strategic choices made, and Weaknesses and Competitive threats)*

11.1.1 ABB

TABLE 114 ABB: COMPANY OVERVIEW

FIGURE 49 ABB: COMPANY SNAPSHOT

TABLE 115 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 116 ABB: PRODUCT LAUNCHES

TABLE 117 ABB: DEALS

11.1.2 EMERSON ELECTRIC CO.

TABLE 118 EMERSON ELECTRIC CO.: COMPANY OVERVIEW

FIGURE 50 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

TABLE 119 EMERSON ELECTRIC CO.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 120 EMERSON ELECTRIC CO.: DEALS

11.1.3 HONEYWELL INTERNATIONAL INC.

TABLE 121 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 51 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 122 HONEYWELL INTERNATIONAL INC.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 123 HONEYWELL INTERNATIONAL INC.: PRODUCT LAUNCHES

TABLE 124 HONEYWELL INTERNATIONAL INC.: DEALS

TABLE 125 HONEYWELL INTERNATIONAL INC.: OTHERS

11.1.4 SCHNEIDER ELECTRIC

TABLE 126 SCHNEIDER ELECTRIC: COMPANY OVERVIEW

FIGURE 52 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT

TABLE 127 SCHNEIDER ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 128 SCHNEIDER ELECTRIC: PRODUCT LAUNCHES

TABLE 129 SCHNEIDER ELECTRIC: DEALS

11.1.5 SIEMENS

TABLE 130 SIEMENS: COMPANY OVERVIEW

FIGURE 53 SIEMENS: COMPANY SNAPSHOT

TABLE 131 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 132 SIEMENS: PRODUCT LAUNCHES

TABLE 133 SIEMENS: DEALS

TABLE 134 SIEMENS: OTHERS

11.1.6 YOKOGAWA ELECTRIC CORPORATION

TABLE 135 YOKOGAWA ELECTRIC CORPORATION: COMPANY OVERVIEW

FIGURE 54 YOKOGAWA ELECTRIC CORPORATION: COMPANY SNAPSHOT

TABLE 136 YOKOGAWA ELECTRIC CORPORATION:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 137 YOKOGAWA ELECTRIC CORPORATION: DEALS

TABLE 138 YOKOGAWA ELECTRIC CORPORATION: EXPANSION

11.1.7 CISCO SYSTEMS, INC.

TABLE 139 CISCO SYSTEMS, INC.: COMPANY OVERVIEW

FIGURE 55 CISCO SYSTEMS, INC.: COMPANY SNAPSHOT

TABLE 140 CISCO SYSTEMS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 141 CISCO SYSTEMS, INC.: DEALS

11.1.8 3D SYSTEMS, INC.

TABLE 142 3D SYSTEMS, INC.: COMPANY OVERVIEW

FIGURE 56 3D SYSTEMS, INC.: COMPANY SNAPSHOT

TABLE 143 3D SYSTEMS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 144 3D SYSTEMS, INC.: DEALS

11.1.9 STRATASYS

TABLE 145 STRATASYS: COMPANY OVERVIEW

FIGURE 57 STRATASYS: COMPANY SNAPSHOT

TABLE 146 STRATASYS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 147 STRATASYS: PRODUCT LAUNCHES

TABLE 148 STRATASYS: DEALS

TABLE 149 STRATASYS: OTHERS

11.1.10 SAP

TABLE 150 SAP: COMPANY OVERVIEW

FIGURE 58 SAP: COMPANY SNAPSHOT

TABLE 151 SAP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 152 SAP: DEALS

TABLE 153 SAP: OTHERS

11.1.11 ORACLE

TABLE 154 ORACLE: COMPANY OVERVIEW

FIGURE 59 ORACLE: COMPANY SNAPSHOT

TABLE 155 ORACLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 156 ORACLE: PRODUCT LAUNCHES

11.2 OTHER PLAYERS

11.2.1 GOOGLE LLC

11.2.2 INTEL CORPORATION

11.2.3 KEYENCE CORPORATION

11.2.4 NVIDIA CORPORATION

11.2.5 SAMSUNG

11.2.6 SONY CORPORATION

11.2.7 UNIVERSAL ROBOTS A/S

11.2.8 OMRON CORPORATION

11.2.9 AMS-OSRAM AG

11.2.10 ROCKWELL AUTOMATION

11.2.11 MITSUBISHI ELECTRIC CORPORATION

TABLE 157 MITSUBISHI ELECTRIC CORPORATION: COMPANY OVERVIEW

11.2.12 OTTOBOCK

TABLE 158 OTTOBOCK: COMPANY OVERVIEW

11.2.13 WIKITUDE, A QUALCOMM COMPANY

11.2.14 DNV AS

*Details on Business overview, Products/Solutions/Services offered, Recent developments, Product launches, Deals, MnM view, Key Strengths/Right to win, Strategic choices made, and Weaknesses and Competitive threats might not be captured in case of unlisted companies.

12 APPENDIX

12.1 INSIGHTS FROM INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.4 CUSTOMIZATION OPTIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

I would like to order

Product name: Industry 5.0 Market by Technology (Digital Twin, AI in Manufacturing, Industrial Sensors, Augmented & Virtual Reality, Industrial 3D Printing, Robotics), Sustainability (Waste-to-Energy Conversion, Recycle, Material), Industry - Global Forecast to 2029

Product link: <https://marketpublishers.com/r/I5441ADFB3D1EN.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/I5441ADFB3D1EN.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