

## **Industry 4.0 Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

### **AVAILABLE LICENSES:**

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

### **Report description:**

The industry 4.0 market is projected to grow at a CAGR of 20.7% over the forecast period. With the introduction of Industry 4.0 in the production sector, numerous industrial facilities are adopting digital technology to improve, automate, and modernize the whole operation, enhancing the plants' productivity parameters.

#### Key Highlights

Moreover, Industry 4.0 has persuaded OEMs to adopt IoT across their operations, owing to the gradual increase in the adoption of IoT and digital transformation across several industries. For instance, according to the International Data Corporation's (IDC) Worldwide Semiannual Internet of Things Expenditure Guide, expenditure on the Internet of Things (IoT) in Europe exceeded USD 202 billion in 2021. It will likely increase at a double-digit rate through 2025. Maryville University estimates that by 2025 over 180 trillion gigabytes of data will be created worldwide every year. IIoT-enabled industries will generate a large portion of this. Furthermore, increasing collaborations among global companies to adopt innovative technologies and digital solutions are expected to contribute to market growth over the forecast period. For instance, in March 2021, NOKIA Firm partnered with WEG Industries, a Brazilian energy and automation company, to accelerate the evolution of the Nokia Digital Automation Cloud (DAC) technology and present an industrial 4.0 solution.

Incorporating and adopting industry technologies offer various advantages but also represent several hazards that might hinder future corporate progress. Security and privacy issues related to advanced technology deployment are projected to hamper industry expansion. According to a study released in 2021 by Cybercrime Journal, the worldwide expense of cybercrime was USD 6.0 trillion in 2021. It is expected to hit USD 10.5 trillion by 2025.

The worldwide COVID-19 outbreak accelerated Industry 4.0 adoption and boosted resilience to potential pandemics. This is because, in the event of a pandemic, technology such as automation and robots serve to reduce human dependency while also allowing the human workforce to protect itself against these risks. It also increases production, preventing plant shutdowns during a crisis.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Industry 4.0 Market Trends

### Manufacturing is Expected to hold a Significant Market Share

The stock of industrial robots operating in factories is at the highest level in history, driven by the success story of intelligent production. Automation has experienced an increase of about 85% within the last five years. The slowdown in sales by 12% reflects the difficult times of the two major customer industries, automotive and electrical/electronics.

The introduction of 5G wireless connectivity and the growing deployment of Industry 4.0 drive the demand for industrial automation throughout businesses. The development of digital twins, augmented reality (AR), digitalization, and industrial IoT is predicted to be important indications of the worldwide industrial automation industry. For instance, in July 2021, Rockwell Automation Inc. teamed with Kezzler AS, a cloud-based manufacturing digitalization and tracing system. Utilizing cloud-based chain technologies, the alliance hopes to empower companies to document their product's end-to-end path from primary material suppliers to delivery or afterward.

Many vendors in the market are expanding their flexible manufacturing portfolio through acquisition or collaboration in order to strengthen their market positions. For instance, in January 2021, ABB announced a strategic partnership with Planar Motors Inc. to expand its machine automation offering. It will integrate PMI's magnetic levitation technology into its Machine Automation Division's (B&R) portfolio, accelerating the industry's transition from strictly linear production to an open, adaptive manufacturing space.

Increasing developments across the manufacturing sector are expected to boost market growth over the forecasted period. For instance, in June 2022, ID@scale (Industrial Data @ Scale) is a new solution for industrial data collecting launched by Renault Group and Atos to assist manufacturing organizations on their digital path to Industry 4.0. Manufacturers will be able to gather and organize data from manufacturing machinery at scale using "ID@S" (Industrial Data @ Scale) to increase operational efficiencies and product assurance. ID@scale, developed by the vehicle maker and currently in use in its facilities, is now being industrialized, configurable, and sold by the technological pioneer Atos.

### India is Expected to Grow at a Significant Rate in the Asia-Pacific Region

India's manufacturing sector lags compared to the United States, Japan, China, and Germany. All these countries, except China, have a much lower population base than India. Given India's population and future goals, the country needs to urgently reform and upskill its manufacturing sector and workforce. Hence, the market presents that opportunity and is expected to grow in the country over the forecast period.

Moreover, India's government aims for a USD 5 trillion economy by 2025, of which manufacturing would be worth USD 1 trillion. The convergence of flagship programs, such as Make in India with Skill India and Digital India, would be vital to achieving this goal, thereby driving the country's market growth.

In August 2021, Intel India, in cooperation with the Society for Innovation and Entrepreneurship (SINE)-IIT Bombay, announced the Plugin Alliance, an industry-technology organization focused on advancing India's Industry 4.0 transition. With the engagement of these members, who represent all aspects of the Industry 4.0 ecology, the Alliance is intended to expand into a community. Thus, these developments are expected to contribute to market growth in the country over the forecast period.

As Industry 4.0 gains traction in the manufacturing sector, many manufacturing facilities are implementing digital technologies to optimize, standardize, and modernize the whole operation, improving the facilities' efficiency metrics. Businesses must now swiftly modify their goods and solutions to the online environment owing to the continually increasing number of connected devices, massive data quantity from external equipment, and evolving technological environment.

According to Cisco Annual Internet Report (2018-2023), over 2.1 billion internet-linked devices will be in India by 2023. The nation's internet user base is expected to exceed 900 million, owing to the increased usage of competitively priced cell phones

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

and more affordable internet connections.

## Industry 4.0 Market Competitor Analysis

The competitive landscape of the industry 4.0 market is fragmented due to the presence of several players, such as ABB, Siemens, Schneider Electric, Swisslog Holding AG (Kuka AG), and Rockwell Automation Inc. The market players are striving to make product innovations and developments to utilize the growth opportunities presented optimally. This is expected to boost the market presence of these players.

August 2022: The University of Louisville established the Center for Organizational Readiness for Enterprise 4.0 (CORE4.0), which will assist businesses in preparing for intelligent and interconnected technology, including artificial intelligence, automation, and the Internet of Things.

June 2022: HCL Technologies (HCL) introduced Industry NeXT, a transformative architecture that assists clients in digitally reinventing their enterprises. HCL Technologies' Industry NeXT platform is built on the industry 4.0 (I4.0) framework and helps organizations worldwide to plan, organize, and effortlessly transition into a cooperative environment. This is made possible by enabling linked interactions, resilient processes, and the delivery of integrated physical and digital commodities and services propelled by advanced digital solutions.

Additional Benefits:

The market estimate (ME) sheet in Excel format  
3 months of analyst support

### **Table of Contents:**

#### 1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

#### 2 RESEARCH METHODOLOGY

#### 3 EXECUTIVE SUMMARY

#### 4 MARKET DYNAMICS

- 4.1 Market Overview
- 4.2 Industry Attractiveness - Porter's Five Forces Analysis
  - 4.2.1 Bargaining Power of Suppliers
  - 4.2.2 Bargaining Power of Buyers
  - 4.2.3 Threat of New Entrants
  - 4.2.4 Threat of Substitute Products
  - 4.2.5 Intensity of Competitive Rivalry
- 4.3 Market Drivers
  - 4.3.1 Favorable Governmental Initiatives and Collaborations Between Stakeholders
  - 4.3.2 Growth in Demand for Industrial Robotics
  - 4.3.3 Digital Transformation Initiatives Undertaken by SME's

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

#### 4.4 Market Restraints

##### 4.4.1 Relative Lack of Awareness on the ROI Related to Adoption of Industry 4.0

##### 4.4.2 Workforce and Standardization Related Challenges

#### 4.5 Impact of COVID-19 on the Market

#### 4.6 Technology Snapshot

### 5 MARKET SEGMENTATION

#### 5.1 By Technology Type

##### 5.1.1 Industrial Robotics

##### 5.1.2 IIoT

##### 5.1.3 AI and ML

##### 5.1.4 Blockchain

##### 5.1.5 Extended Reality

##### 5.1.6 Digital Twin

##### 5.1.7 3D Printing

##### 5.1.8 Other Technology Types

#### 5.2 By End User Industry

##### 5.2.1 Manufacturing

##### 5.2.2 Automotive

##### 5.2.3 Oil and Gas

##### 5.2.4 Energy and Utilities

##### 5.2.5 Electronics and Foundry

##### 5.2.6 Food and Beverage

##### 5.2.7 Aerospace and Defense

##### 5.2.8 Other End User Industries

#### 5.3 By Geography

##### 5.3.1 North America

###### 5.3.1.1 United States

###### 5.3.1.2 Canada

##### 5.3.2 Europe

###### 5.3.2.1 Germany

###### 5.3.2.2 United Kingdom

###### 5.3.2.3 France

###### 5.3.2.4 Spain

###### 5.3.2.5 Rest of Europe

##### 5.3.3 Asia-Pacific

###### 5.3.3.1 India

###### 5.3.3.2 China

###### 5.3.3.3 Japan

###### 5.3.3.4 Rest of Asia-Pacific

##### 5.3.4 Latin America

##### 5.3.5 Middle East

### 6 COMPETITIVE LANDSCAPE

#### 6.1 Company Profiles

##### 6.1.1 ABB Ltd

##### 6.1.2 Siemens AG

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 6.1.3 Schneider Electric
- 6.1.4 Swisslog Holding AG (Kuka AG)
- 6.1.5 Rockwell Automation Inc.
- 6.1.6 Cognex Corporation
- 6.1.7 Honeywell International Inc.
- 6.1.8 Robert Bosch GmbH
- 6.1.9 Johnson Controls International PLC
- 6.1.10 Emerson Electric Company
- 6.1.11 General Electric Company
- 6.1.12 Cisco Systems Inc.
- 6.1.13 Intel Corporation
- 6.1.14 Fanuc Corporation
- 6.1.15 Denso Corporation

## 7 INVESTMENT ANALYSIS

## 8 FUTURE OF THE MARKET

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

**Industry 4.0 Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-28"/>
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

