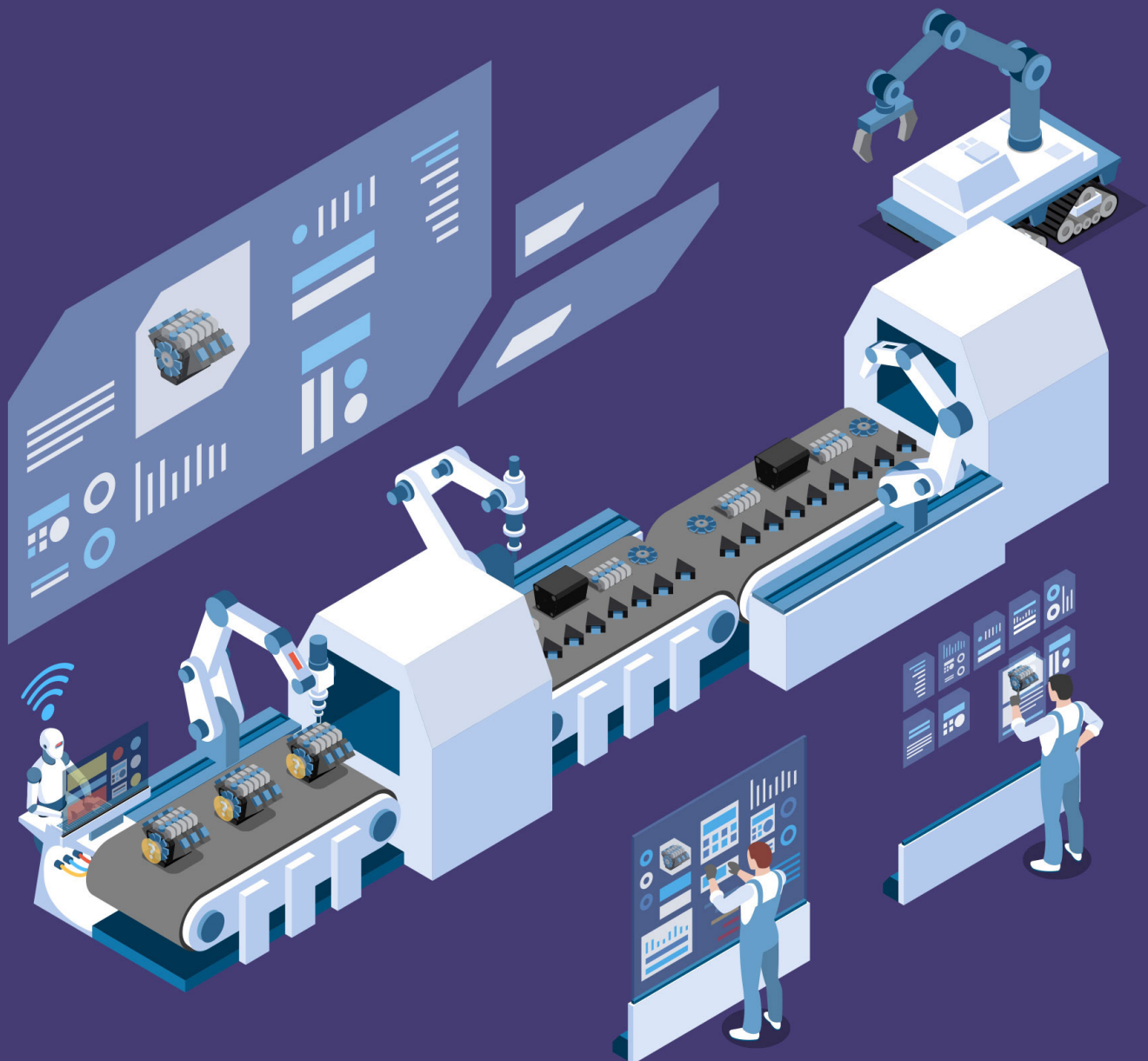


INDUSTRIAL AUTOMATION



When machinery is controlled through autonomous systems integrated with technology like computer software and robotics, it is known as industrial automation. This is often used in industries to increase their level of productivity and reduce costs by replacing employees with automated processes while ensuring the precision of work at the same time. While it was the Industrial Revolution that brought forth mechanization, mechanical processes still required skilled workers, and with employees and machines working together, there was always the threat of human error.

However, when automation came to the scene, control loops were added to machine operations making the operations even more precise and making it possible for industries to operate even 24 hours a day.

While some manufacturers are focused on adopting this technology to boost their productivity while others use it to train staff. Furthermore, it can also be used to collect data and statistics that can be further used to make intelligent decisions that can lead to a reduction in costs.



Global Outlook for the industry

The Global Industrial Automation market was worth \$189.7 billion in 2021 with predictions to reach a valuation of \$430 billion by 2030 with a CAGR of 9.7%.¹

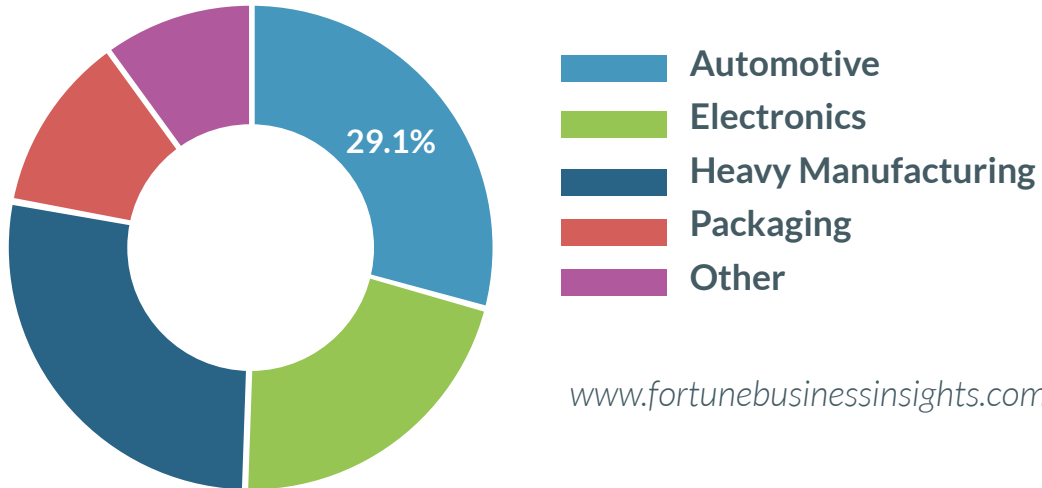
Asia Pacific is expected to be the most prominent region in the worldwide market

for industrial automation. This can be attributed to the existence of major industry sectors in that region with countries like China, India and Japan being the leading manufacturers and end consumers of robotic, computer and sensor systems².

¹<https://www.globenewswire.com/news-release/2022/08/04/2492934/0/en/Industrial-Automation-Market-Size-is-projected-to-reach-at-USD-430-9-Billion-by-2030-with-a-CAGR-of-9-7.html>

²<https://www.globenewswire.com/news-release/2022/08/04/2492934/0/en/Industrial-Automation-Market-Size-is-projected-to-reach-at-USD-430-9-Billion-by-2030-with-a-CAGR-of-9-7.html>

Global Industrial Automation Market Size, By Industry
(Discrete Automation), 2021³



What is driving growth in the industry?

The growth in the industrial automation industry is primarily driven by the increased acceptance of automation technology. While the technology has been here for a longer time, its adoption has not been as rapid as many would like it to be.

Now, even traditionally conservative sectors like petroleum are adopting this besides automotive, petrochemical, chemical, manufacturing, and pharmaceuticals.

Another factor has been the increasing demand for periodic inspection and sophisticated data analysis that gives firms visibility into their manufacturing operations. The pandemic also played a role in the increase in the use of industrial automation. Not only did it hasten deglobalization in the industry but as a result of delays in logistical issues all over, industrial automation emerged as the sole solution to fix all these issues.

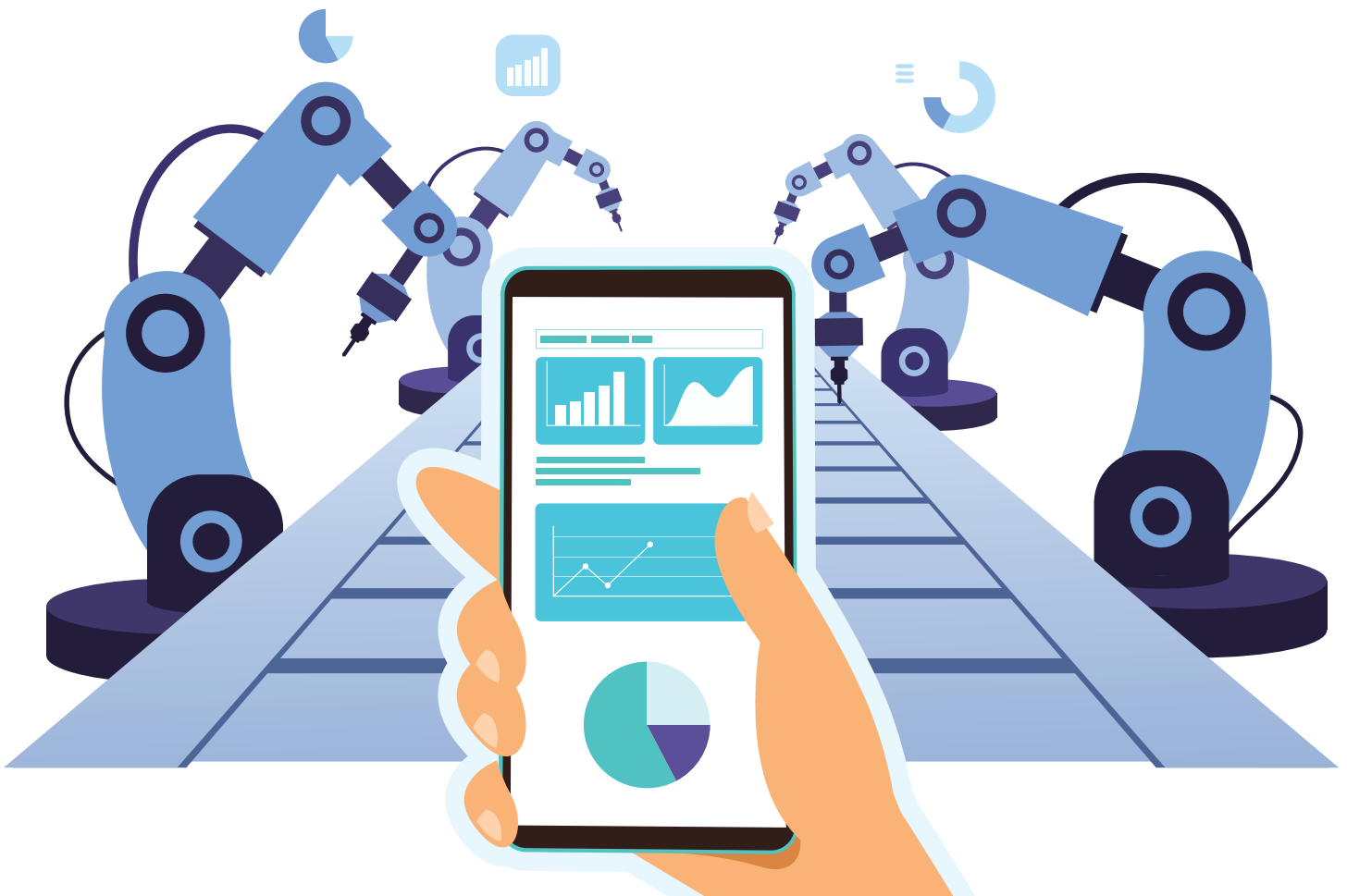
³<https://www.fortunebusinessinsights.com/industry-reports/industrial-automation-market-101589>

Key players in the industry

Key companies involved in this space include ABB Ltd, Rockwell Automation, Honeywell International etc.

Zooming in on Pakistan

Automation Product Manufacturers	Pakistan Automation, Baig Engineering, IS Automation, Industrial Automation Solutions, The Automators, Fuzilogix, Pakistan Controls and Industrial Automation, INTECH, Tariq Automation, Malik Automation, Capital Solutions, United Team Automation Technologies.
Automation Product Suppliers	C&M Automation, Intek Automation, , NewTek Automation, Atom Automation, TAJ Automation, Speedy Automation, I.S Automation.
Intelligent Building Systems	RESCO





Pakistan Automation

Pakistan Automation is a house of digital operational excellence systems that wants to shape the future of digital economy. Their range of services includes Industrial Automation Training where they maximize workforce effectiveness through comprehensive training; Smart Manufacturing through which they integrate assets with sensors, computing platforms, predictive engineering etc and Engineering TurnKey projects that provide comprehensive engineering services for EPC contracts.⁴



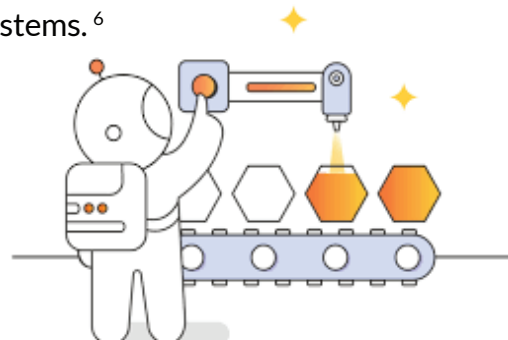
C&M Automation

C&M Automation provides industrial automation consultancy and products. Their products include Programmable Logic Controllers (PLC), HMI, VFD, Servo drives and related control equipment from Siemens, Mitsubishi, Allen Bradley and Omron. They also provide signal transmitters and Industrial Communication serial/wireless servers and gateways from Advantech Industrial Communication. They provide engineering services to various industries, including Pharmaceutical, Automotive, Textile, Food and Beverage, Battery Manufacturers, Cement and Petrochemical industries. Their services range from complete plant and machinery installation and commissioning service, automation system design, PLC and HMI Programming, field wiring, calibration, start-up tests, upgradation of obsolete controls, troubleshooting, field maintenance and electronic repair of industrial controls.⁵



Baig Engineering

Baig Engineering has been working in the Automation and Electrical Industry since 1989. They manufacture state of the art products at the highest international level of quality yet at an affordable price within its class. They are in the business of Factory Automation and Power since 2000. They specialize in Automation Control Solutions and deal majorly in the following areas: Automation Based Services, Electrical Contracting, Electrical and Automation Consulting Services, Lighting Solution, Monitoring Solutions, Irrigation Systems for Golf Courses and Home Automation systems.⁶



⁴<https://www.pakistanautomation.com.pk/>

⁵<https://www.pakplc.com/>

⁶<https://fatek.com.pk/>



Industrial Automation Solutions

Industrial Automation Solutions is a leading engineering and automation company specializing in the supply of Industrial Control Automation Products and Services. IAS is working in the field of Automation Supply and Services since last 05 years. They are dedicated to providing their valued customers with the Industrial Automation Solution that fits their needs and fulfills their requirements. They offer extensive experience in Chemical, Fertilizer, Glass, Sugar, Cement, Textile, Paper and packaging, Power plants, Dairies and Food Industries.⁷



IS Automation

I.S Automation (PVT) LTD is an industrial solution provider and provides services in the following industries: Pulp and Paper, Power Plants, Pharmaceuticals, Oil Refinery, Processing plant, Fertilizers, cement industry , Petrochemical etc.⁸

⁷<http://www.iaspak.com/>

⁸<https://shop.isautomations.com/>



Fuzilogix

Fuzilogix is the leading provider of industrial automation solutions, equipment and process cooling systems and allied accessories. They provide both turnkey and custom solutions for a broad range of clientele from textiles and packaging to manufacturing and beverages, from telecom and fabrication to high-tech industries.

Fuzilogix is founded on the belief that exceptionally deep engineering knowledge, applied practical field experience, and real customer service are the keys to successful system design and project execution. Fuzilogix has a strategic partnership with leading brands and manufacturers, they are in a unique position to offer a broad range of products, after sale services, and technical expertise to customize and integrate every solution.⁹



Pakistan Controls and Industrial Automation

PAKCIA has been serving the industry for the last 20 years. We work in the following key areas: Mechanical Valves, MS/SS Pipe and Fittings, Industrial Automation that includes (Pressure, Temperature, Level and Flow Measuring Devices), Industrial Tools etc.¹⁰



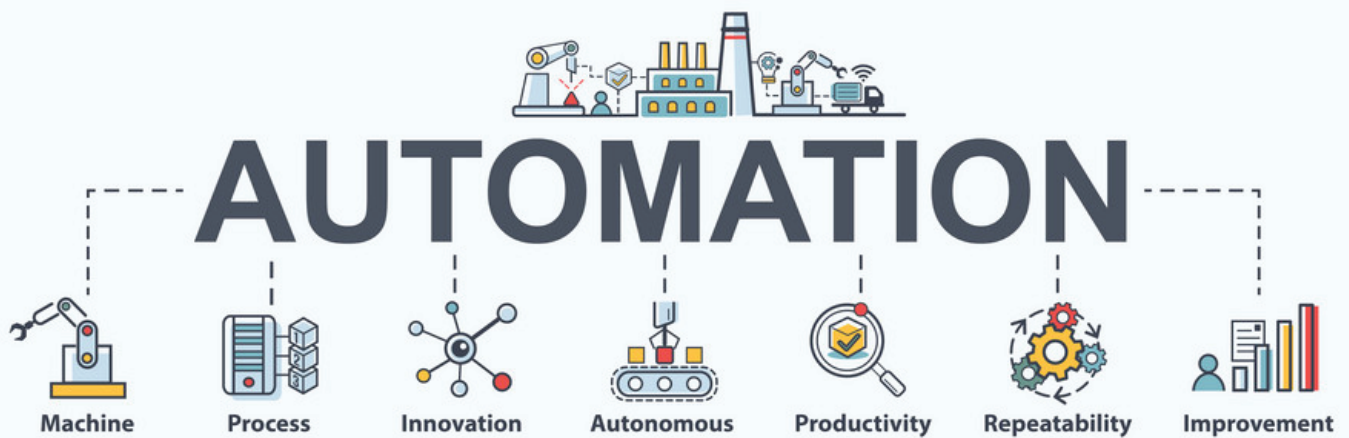
⁹<https://www.fuzilogix.com/>

¹⁰<https://pakcia.com/en/>



INTECH

INTECH Pakistan has a sizeable footprint in the Pakistani market with a long working history with major international and national oil and gas companies. The company has been providing complete end to end automation solutions to major Oil and Gas companies operating in the local market. An ISO 9001 certified office, Pakistan also serves as the back office for INTECH's international operations. The Pakistan back office engineering team is trained, developed, experienced, and fully capable of managing and executing multiple automation projects at the same time maintain the highest standards of quality and customer satisfaction.¹¹



Tariq Automation

Tariq Automation is an industrial solutions company in Pakistan that is constantly striving to continue its journey towards more success by bringing in the latest technologies for their customers related to HVACR, Industrial Process and Factory Automation, Instrumentation Projects etc. They promote and partner with global original equipment manufacturers to solve their customers' current and future needs and make their processes safe and sound and their businesses successful.¹²

¹¹<https://www.intechww.com/>

¹²<https://tariqautomation.com/>



MALIK AUTOMATION

Malik Automation

Malik Automation provides customers with automation and industrial solutions for improving operational efficiency and quality, in their product, processes, and machine and plant control systems. They have vast experience in PLC Automation for Process Control, RTU Automation for remote site control or remote telemetry control and monitoring, HMI and SCADA local and network Operator Interface.

They provide services to the following industries: Food and Beverage, Water, Oil & Gas and Pharmaceuticals. Malik Automation Lahore, Pakistan has developed a set of pre-designed and pre-tested process standards, drawings, software code, and supporting documentation specifically designed to address the technical requirements of the customer through process specific customization.¹³



Capital Solutions

Capital Solutions

Capital Solutions is the solution to your industrial problems from automation to CNC installation and maintenance. They have been providing services for over 5 years with thousands of satisfied customers in both domestic and international markets. Their team has extensive experience

working on all types of machinery from milling machines to lathes, turning centers, grinders, tool & die machines, injection molding machines and much more. They also provide complete industrial automation to maintenance services all over Pakistan and across the globe.¹⁴

¹³<https://malikautomation.com/>

¹⁴<https://www.capitalsolutions.pk/>



RESCO

Resco is an Intelligent Buildings Systems Integration company, focused on delivering state of the art intelligent solutions, industry leading technology and best of class services to its clients in all sectors including commercial, residential, healthcare, airports, hospitality, government etc.

Their team brings a set of world-class best practices and expertise focused on Integrated and Intelligent Building Management Systems that enable diverse systems to work together to provide energy efficient operations, smartly respond to

critical events and strategize tasks as one unified system thus increasing building efficiency.

Resco has introduced the next-generation building automation, integration technology and security solutions to the market through its strategic partnership with leading manufacturing and engineering companies globally. Some of their most notable projects include Dolmen Harbor Front Tower, State Bank of Pakistan Head Office, Habib Bank Plaza, Hub Power Station, MCB Tower, Faysal House.¹⁵



¹⁵<http://www.reliable.com.pk/index.html>

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ABOUT THIS INDUSTRY ROUNDUP

Pakistan Software Export Board developed this paper by hiring services of independent consulting firms to prepare this roundup on Pakistan's Industrial Automation sector. The paper focuses on Pakistan-based companies in this vertical and apprises the reader of the expertise available in Pakistan in the Industrial Automation domain.

DISCLAIMER

All the information provided in this roundup is compiled by the consulting firm and based on the material provided by the companies covered in this roundup.

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