

Automation is key to industrial growth

Developing automation and adopting new technologies are imperative to boost the growth of industries in India

Rashmi.Sanzgiri
@timesgroup.com

The Make in India Initiative foresees growth and development of India. Its main objective is to attract foreign industry players to invest in India and build manufacturing units, thus boosting industrial development and creating employment opportunities for all. However, according to experts, in order to meet the international standards of manufacturing, it's imperative to develop the automation sector. The automatic machineries play a pivotal role in increasing production, which

the global market, improving the automation sector is a key to the country's growth and development.

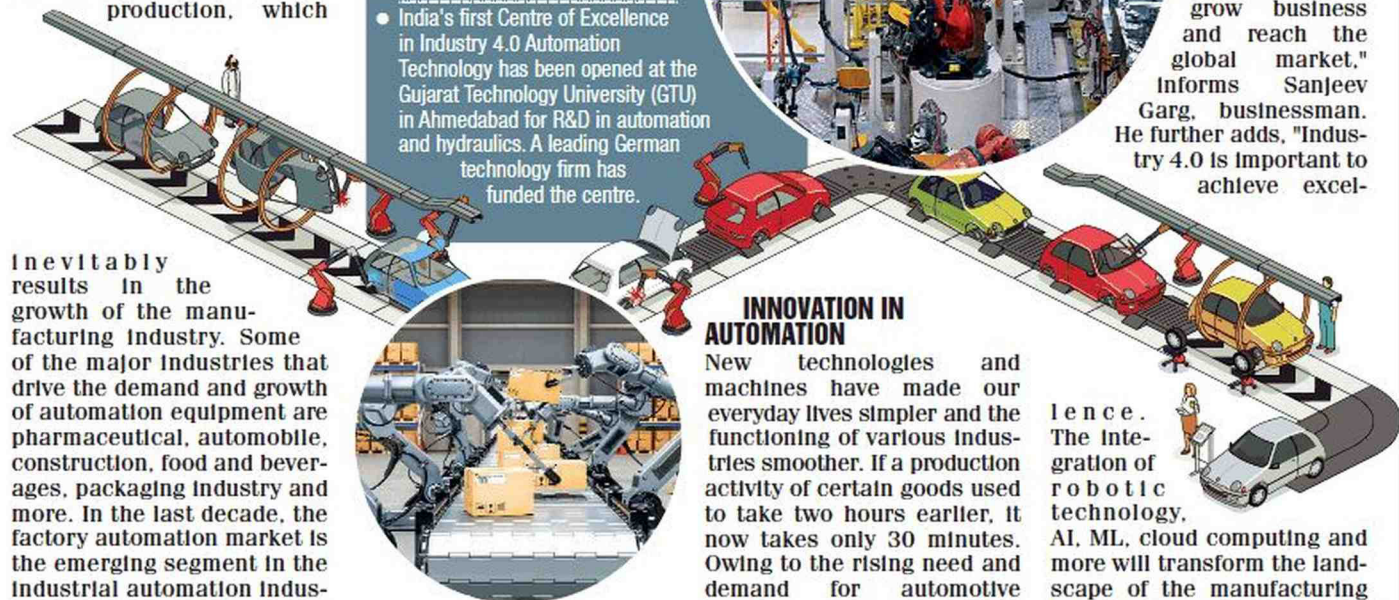
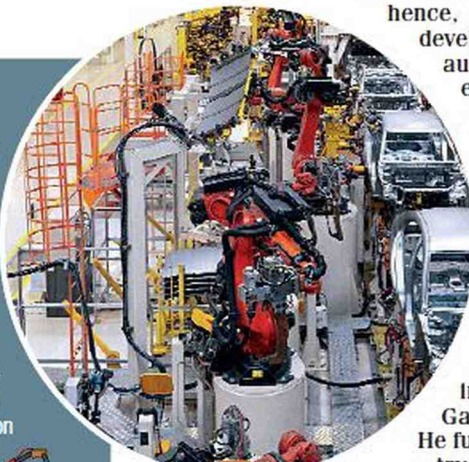
The biggest advantage of adopting automotive equipment and machineries is that it increases production, reduces defect rates and

Information technology (IT), rise in manufacturing units, growing demand for goods and increasing disposable income will drive the industrial automation growth.

cloud computing and cyber-physical systems. Having a strong digital support is essential to make India a global manufacturing hub. "The growth of the manufacturing sector is linked with the automation industry, and hence, the growth and development in the

automation sector is equally important along with the manufacturing sector. It is necessary for Indian industries to invest in automation technologies to grow business and reach the global market," informs Sanjeev Garg, businessman. He further adds, "Industry 4.0 is important to achieve excel-

- India ranks third in implementing robotic automation
- There has been a surge in demand for 3D object analysis machines. Its market is expected to grow at a CAGR of 11.07% to reach \$2.13 billion by 2022
- India's first Centre of Excellence in Industry 4.0 Automation Technology has been opened at the Gujarat Technology University (GTU) in Ahmedabad for R&D in automation and hydraulics. A leading German technology firm has funded the centre.



Inevitably results in the growth of the manufacturing industry. Some of the major industries that drive the demand and growth of automation equipment are pharmaceutical, automobile, construction, food and beverages, packaging industry and more. In the last decade, the factory automation market is the emerging segment in the industrial automation industry in India, and it is expected to grow at a CAGR of 11.6 per cent by 2023.

ADVANTAGES OF ADOPTING AUTOMATION

The growth of manufacturing sector is essential to boost the Indian economy. The government of India has realised its importance and is taking all the measures to strengthen this sector. And to make India a manufacturing hub and maintain its position in

helps to save cost and energy, thus making the manufacturing process more efficient. Also, it helps to meet global quality standards. Automation sector is important for the function of most of Indian industrial sector. Keeping this in view, it is crucial for India to invest in new automotive technologies to fuel industrial development.

As per industry experts, factors like innovation in

INNOVATION IN AUTOMATION

New technologies and machines have made our everyday lives simpler and the functioning of various industries smoother. If a production activity of certain goods used to take two hours earlier, it now takes only 30 minutes. Owing to the rising need and demand for automotive machines and equipment, the research and development in creating new and efficient automatic equipment and machines is in full swing.

Furthermore, Industry 4.0 is a powerful step that will bring conventional and modern technologies together. It will take the industrial automation sector to new heights as it aims to create smart factories consisting of machines that are digitally connected through the Internet of things,

lence. The integration of robotic technology, AI, ML, cloud computing and more will transform the landscape of the manufacturing industry. However, I believe it is still in the early stages as all these automatic technologies need to be cheaper so that even small-scale industries can afford them."

Lately, there has been a surge in demand for 3D object analysis machines in the product manufacturing sector as it gives a vision and feel of how the end-product will look like. This has helped manufactures to produce well-packaged products.