The State of Generative AI Adoption in the Manufacturing Industry
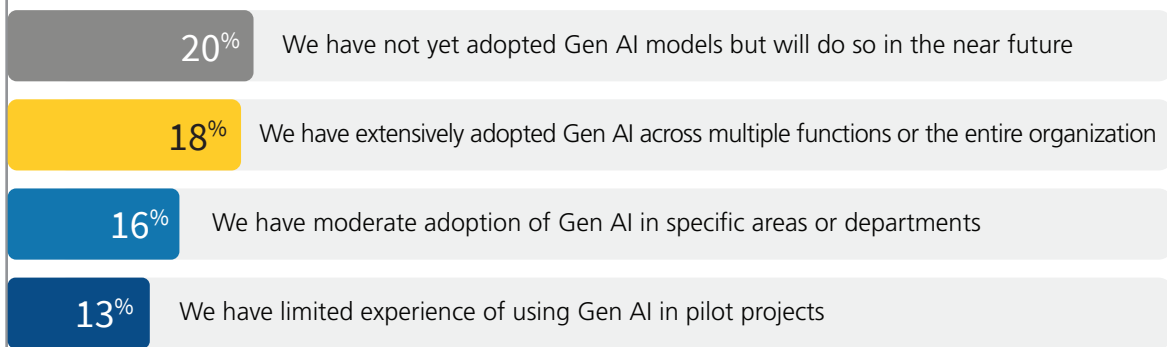
Respondents shared insights on Gen AI adoption in their organisations

20%	We have not yet adopted Gen AI models but will do so in the near future
18%	We have extensively adopted Gen AI across multiple functions or the entire organization
16%	We have moderate adoption of Gen AI in specific areas or departments
13%	We have limited experience of using Gen AI in pilot projects

Primary driver

40% of early adopters are in retail and manufacturing

Top consideration

Gen AI provides immense value through process optimization, efficiency, and innovation

Biggest barrier

Difficulty in identifying appropriate use cases

Gen AI use cases

Enhancing operations efficiency

- Predictive maintenance to identify and **prevent equipment failures**
- AI-driven quality control to ensure **product quality and consistency**
- Automated tasks to free up workers for **more strategic initiatives**

New product development

- AI-powered design and engineering tools to **accelerate new product development**
- Virtual prototyping and simulation to **reduce costs** and **improve time to market**
- Data-driven insights to identify **customer needs** and **opportunities**

Global adoption trends

- The US is more likely than other regions to use AI in **manufacturing**
- Adopters are using **Gen AI** to **boost workplace safety** and
- Gen AI helps manufacturers shift from regular to predictive maintenance

Grab the report to uncover a holistic generative AI adoption roadmap

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