



Unlocking the potential of advanced automation in manufacturing



Automation has become far more than just a labor saving tool; it enhances human workforce capabilities, addressing skill gaps and boosting talent. Effective data accessibility and automation are pivotal in transforming team collaboration and operations.



74%

of manufacturers see outdated processes as a significant barrier to productivity and collaboration



41%

of manufacturers are addressing outdated processes with automation

Leaders plan to invest in the following focus areas over the next 3 years

57%

Workflow automation



53%

Automated quality control



48%

Predictive automation



30%

Lights-out operations



Engineering and manufacturing leaders recognize automation and AI as critical drivers of productivity and innovation in the manufacturing lifecycle.

47%

are investing in generative automation such as generative design, Design of Experiments (DOE) or generative AI.



AI and ML's role in advancing manufacturing

Increasing numbers of manufacturing decision makers view AI and ML as game changers. These technologies are fundamentally altering manufacturing processes.

What are the top areas AI or ML can help improve ongoing processes?

Product quality

49%

Process efficiency

45%

Cost saving

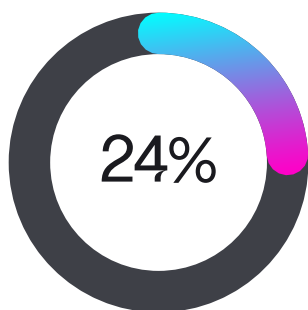
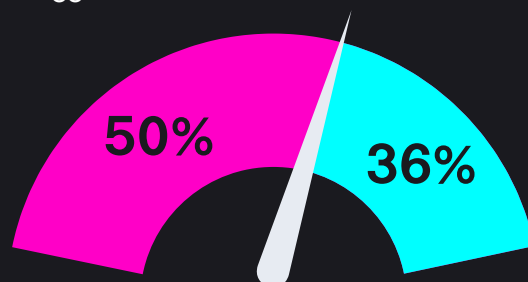
41%

Product design and engineering

24%

By embracing advanced automation and AI, manufacturers can unlock benefits like optimized workflows, data driven insights and a more agile, resilient process that adapts to changing market conditions.

50% of automation leaders say they have gained a competitive edge, versus just 36% of laggards.



To better understand the current state of manufacturing and the challenges, opportunities and enablers of success, Hexagon commissioned this survey of industry leaders, 24% of which were C-level executives.

[Read the full Advanced Manufacturing Report →](#)