How to thrive in today’s challenging Manufacturing industry

Reduce costs to stay competitive

The manufacturing and service sector’s economic health dropped 5.2 points from November to December 2018. This marks the sharpest decline in years and triggers fears of slowed global growth. In an unsure market, reducing costs to stay competitive must be a top priority.

Increase uptime of high-value assets

Artificial Intelligence (AI) helps predict when asset repairs may be needed, increasing equipment uptime by up to 20%.

Optimize asset performance

Using artificial intelligence-powered asset performance optimization with predictive maintenance, organizations can strategically forecast repairs to:

- Proactively address problems to ensure smoother operations.
- Increase uptime for more opportunity to generate revenue.
- Detect issues before failure to lower costs and improve safety.
- Save money and labor while reducing downtime.

Manufacturers that implement predictive maintenance typically reduce machine downtime by 30–50% and increase machine life by 20–40%.

How it works

Consider a steel producer that leverages AI to optimize productivity.

Step 1
Sheets of steel are pushed through rollers that flatten them. Sheets produced too quickly can move off-center, resulting in crumpled steel. New steel must be fed into the rollers, causing unplanned downtime.

Step 2
A breakout predictor senses sheet movement and adjusts production line speed accordingly to avoid issues.

Step 3
With an AI predictive model, data can be analyzed to identify patterns that indicate potential problematic conditions.

Knowing why problems occur takes a company from reactively dealing with an unplanned problem to proactively adjusting production and addressing conditions.