5 ways to transform your automotive production for EV manufacturing

Now is the time to take a fresh look at an agile manufacturing strategy

#1 Do more than just own the EV shift

Established automakers know, current powertrain and drivetrains manufacturing systems can be unreliable. However, by using a flexible strategy that evolves/adapts with your changing needs, you can easily meet both consumer and market trends in real time.

Industry predictions are in:

56M
in vehicle sales by 2040[1]

30%
of all vehicle sales will be EV and HEV by 2025[2]

EV
sales will overtake ICE by 2038[1]

#2 Be flexible and competitive

So, how do you achieve a more flexible manufacturing process? By first discovering the inefficiencies in your current manufacturing system and using that data to personalize your approach to market shifts and delivering cutting-edge products.

#1 powertrain
of the future will vary by vehicle, class, and even region[3]

$65Bn
in legacy automation assets are becoming obsolete[4]

- Streamlined, automated production processes
- Dedicated stations with no reconfiguration required
- Efficient assembly line designs
- Distributed architecture
- Multi-device data collection

#3 Gain greater control with a connected plant

By connecting every aspect of your business, from IT, to maintenance, and even management, you can streamline processes and gain control over your manufacturing. Along with helping to reduce MRO costs, it gives you insight into what needs optimization by opening the door to useable data and other untapped sources of understanding across the organization.

Streamline processes and reduce costs

$30Bn
in MRO costs reported per year by manufacturers[5]

$2M
average savings from optimization[6]

#4 Drive growth with greater access to data

Analyze bottlenecks or reassign workstation tasks in more efficient ways with ample data collection across a connected plant. Unlock the full potential of your MES with the power of data. Make it more scalable and trackable. Handle constant changes in powertrain and drivetrain technologies, deliver predictive maintenance, and improve quality and safety issues.

Data-fueled predictive maintenance delivers big benefits

up to 10% less cost for maintenance[7]

up to 20% more uptime and availability[7]

#5 Accelerate with a powerful automation strategy

Many automakers have already transformed their operations into connected, data-driven plants. The key to their success? Experience. Reducing automation launch risks can be avoided with the right partner. Rockwell Automation is the industry-leader in electric vehicle drivetrain manufacturing automation and has a proven record for success.

Together, we're expanding what's possible.

LEARN MORE

[1] "Electric Vehicle Outlook 2019: Bloomberg New Energy Finance." BloombergNEF, https://about.bnef.com/electric-vehicle-outlook/#toc-viewreport.

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[3] "COMPONENT: Powertrain Mix of the Future to Vary by Region and Segment." Automotive World, https://www.automotiveworld.com/articles/component-powertrain-mix-of-the-future-to-vary-by-region-and-segment/.

[4] "Automation Lifecycle" Rockwell Automation Process Solutions User Group (PSUG) November 14-16, 2011

[5] "Capturing the MRO Advantage In Manufacturing." https://www.bcg.com, 23 Nov. 2016, https://www.bcg.com/publications/2016/lean-manufacturing-sourcing-procurement-more-spare-change-capturing-mro-advantage.aspx.

[6] Automotive Industry: Asset Management & Reliability Solution, Rockwell Automation Case Study, 2017

[7] "Making Maintenance Smarter: Predictive Maintenance and the Digital Supply Network." Deloitte Insights, May 9, 2017, https://www2.deloitte.com/us/en/insights/focus/industry-4-0/using-predictive-technologies-for-asset-maintenance.html

Publication AUTO-SP012B-EN-P - June 2020
Supersedes AUTO-SP012A-EN-P - November 2019