



Engineering Excellence Through Automation

Transforming Manufacturing in the AI Era



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HELPING THOSE WHO HELP OTHERS

Workshop Objectives

- **Understand** the strategic role of automation and AI in modern medical device manufacturing.
- **Explore** real-world case studies and that bring customer value.
- **Identify** opportunities for lean transformation and smart manufacturing.
- **Develop** a workplace-specific action plan for implementing automation and process improvements.

Who is facing automation challenges currently?

The Future is Here

- Why is Automation Important?
- AI in quality control
- Real-time data analytics and lean integration
- Smart manufacturing ecosystems
- Cost and inventory optimization

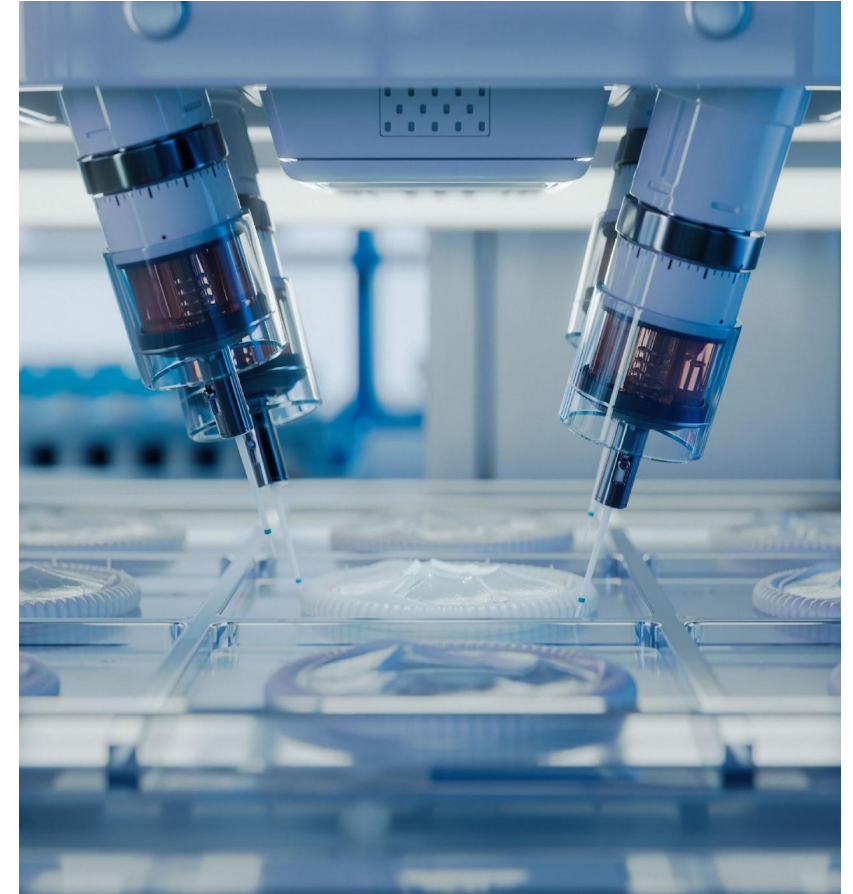


CASE 1: Full Automation of High-Volume Assembly

Not so obvious: *Transforming a manual medical device line in a LOW cost region?*

Key Discussion points:

- Where in your operations might similar automation be possible?
- What barriers (technical, cultural, financial) exist?
- What would a strong ROI case look like in your context?

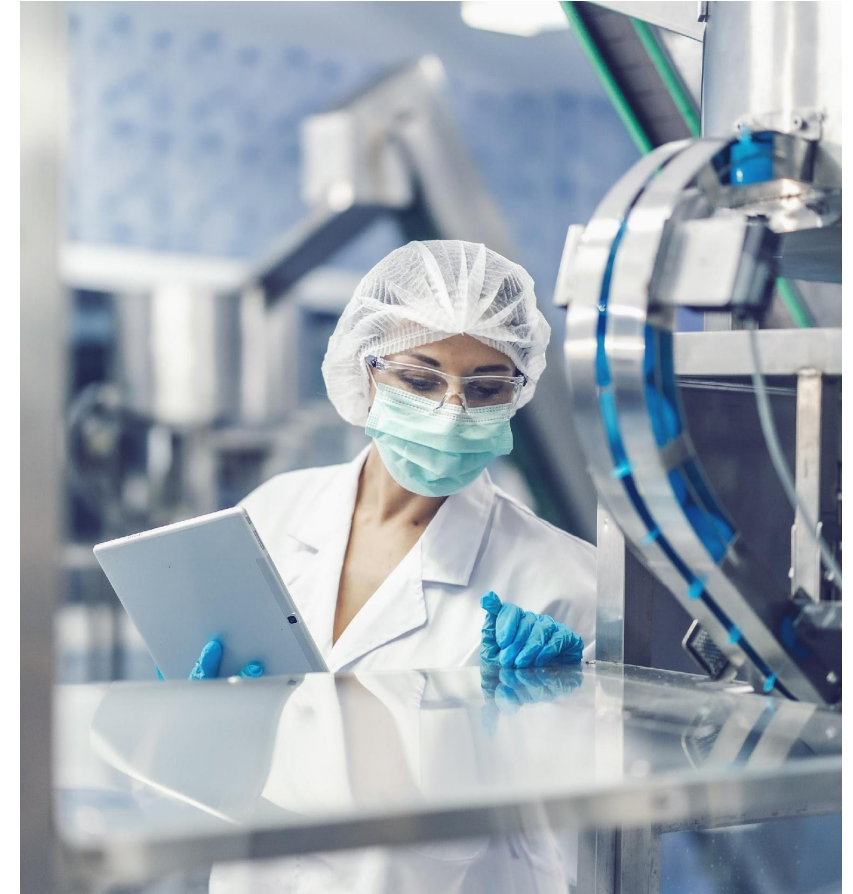


CASE 2: AI Vision Systems for Quality Control

Beyond throughput: Deep-learning tools replacing manual inspection to improve product quality.

Key Discussion Prompts:

- Where do inspection errors or bottlenecks arise in your processes?
- How could AI reduce false rejects or increase consistency?
- What skills or infrastructure would be required?



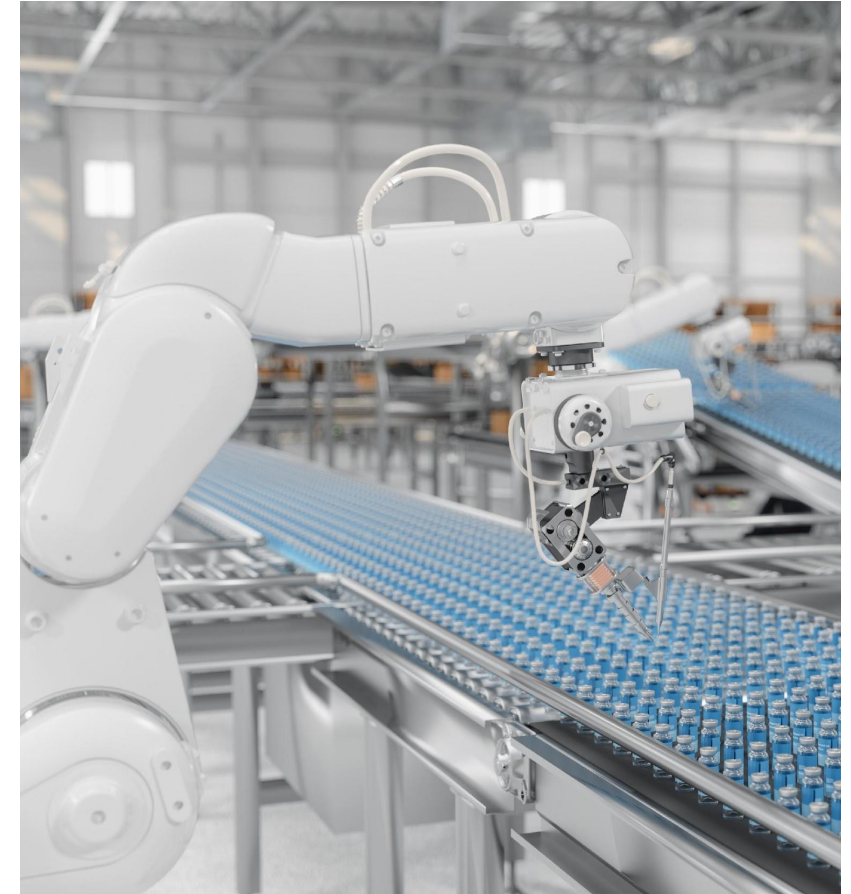
CASE 3: Lean Strategy & Theory of Constraints

Where do you start?

Creating a culture of manufacturing excellence to identify cost improvements opportunities

Key Discussion Prompts:

- How does your organization identify and resolve bottlenecks?
- What lean methods (e.g., Kaizen, Gemba walks) are used—or missing?
- How could labor be redeployed to create process stability?



- Roundtable Lessons & Themes Summary
- Participant Reflections
- Resources for Further Explorations/Checklist
- Next Steps

THANK YOU!