

# Automotive OEM deploys safe, productive AMRs on new high-speed line

## CHALLENGE

Labor was pulled from production for manual transport, disrupting efficiency.

- Manual labor couldn't keep pace with the new line's 62-second cycle times
- Forklifts driving in production and pedestrian zones posed safety risks
- Manual labor was pulled from value-added work on the line to move materials
- Needed flexibility for dynamic mass production of engines and transmissions

## SOLUTION

Deployed 11 OTTO 1500 AMRs with Nord Lift attachments to meet 62-second cycle times.

- Integrated FactoryTalk Optix for safe, efficient material transfer coordination
- Pedestrians and AMRs share spaces without safety risks
- Manual labor focuses on high-value tasks on the line
- SIMIO discrete event simulation testing ensured efficiency pre-deployment

**Achieved target productivity, flexibility, and safety**

**Success has led to standardization of workflow, scaling to second facility**

## OTTO AMRs that enable this use case:



**OTTO 1200**



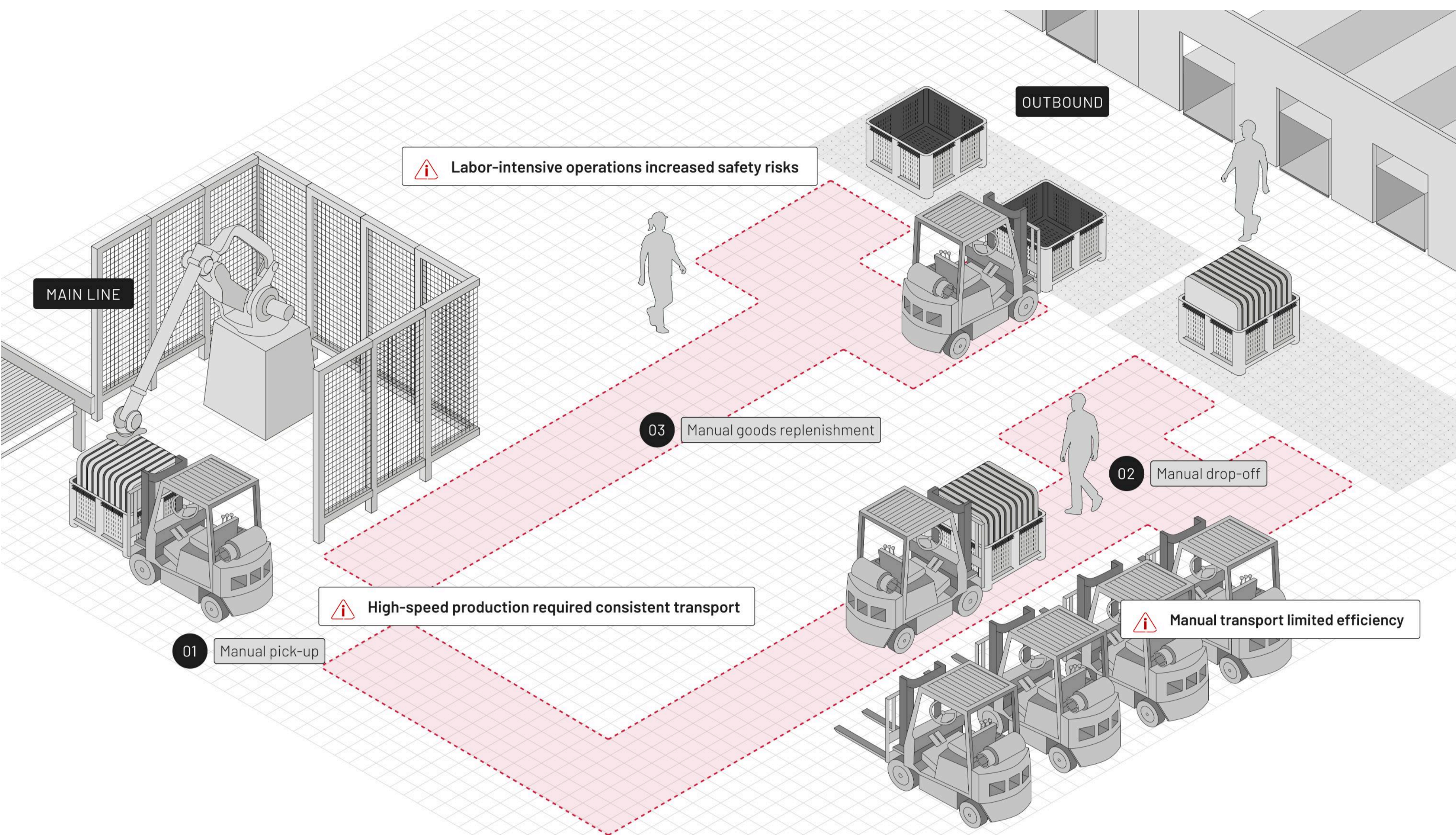
**OTTO 1500**



**OTTO Lifter**

# LEGACY WORKFLOW

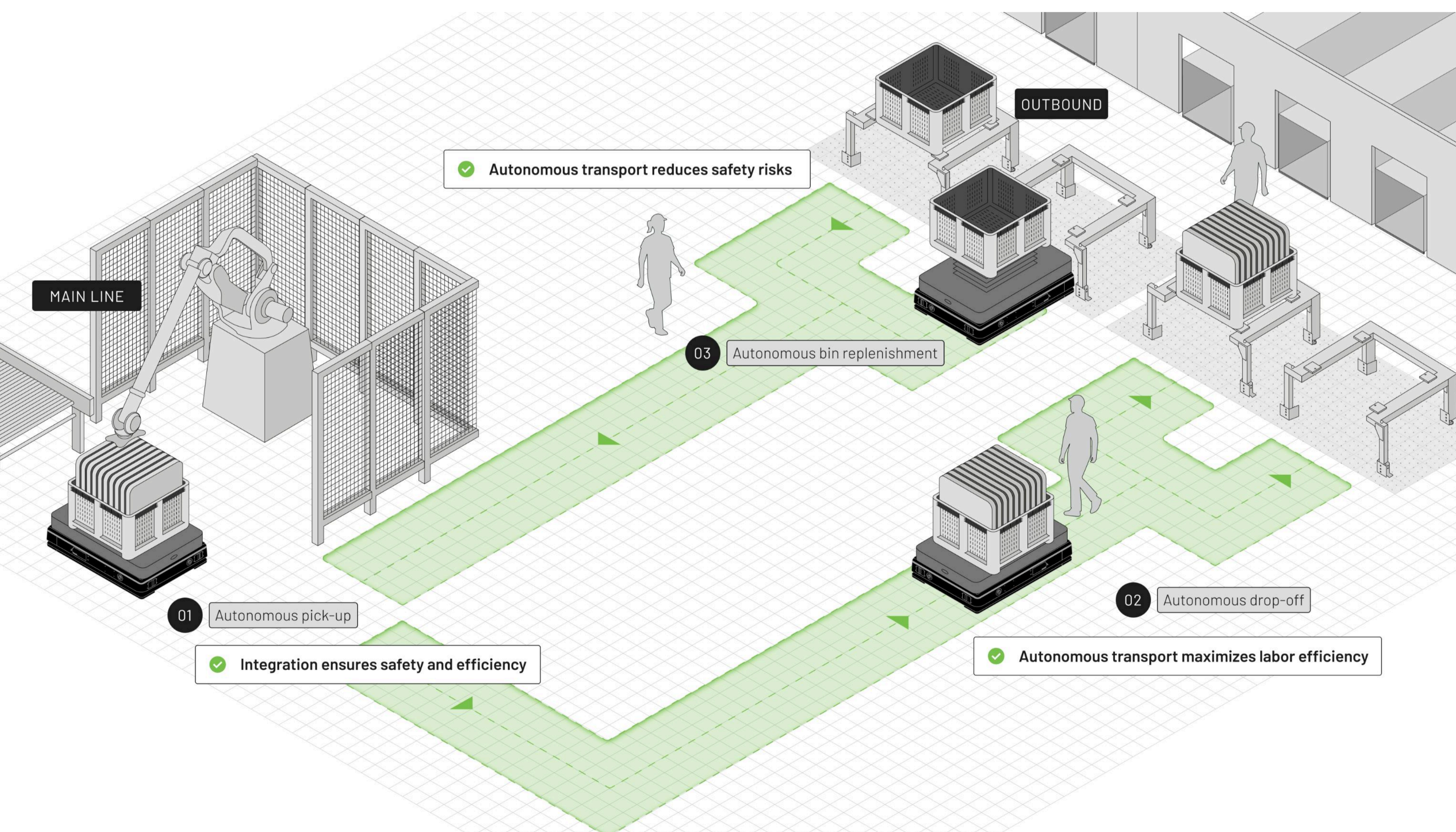
Manual transport couldn't keep pace in this high-speed production environment.



- High-speed production required consistent transport**  
Existing manual transport process and labor availability could not keep pace with the 62-second cycle time.
- Labor-intensive operations increased safety risks**  
Manual handling in production and pedestrian zones increased safety hazards.
- Manual transport limited efficiency**  
The production line needed an efficient solution where limited labor availability focused on value-added work.

# AUTONOMOUS WORKFLOW

AMRs maximize labor efficiency and safety in dynamic powertrain plant.



- Integration ensures safety and efficiency**  
FactoryTalk Optix integration automatically queues AMRs and coordinates safe, efficient material transfer to accommodate 62-second cycle time.
- Autonomous transport reduces safety risks**  
Autonomous material handling enables pedestrians and vehicles to share spaces without safety risks.
- Autonomous transport maximizes labor efficiency**  
AMRs transport finished goods autonomously, enabling workers to focus on high-value tasks on the line.

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