



Smart Manufacturing Requires Smarter Material Handling

OTTO Motors is a leading provider of autonomous material handling inside manufacturing facilities and warehouses. Enterprises in Automotive, Consumer Packaged Goods, Food and Beverage, and Electrical Manufacturing use OTTO Motors to create more resilient and flexible supply chains. By helping top enterprises realize value in production, OTTO is the only company operating AMRs at scale across multiple sites and companies.

3M production hours in mission critical operations

400k missions completed every month

70% of OTTOs are within **F500 companies**

10% of the **cost** of an FTE

6 of the **top 10 automotive brands** use OTTO



REDUCE COSTS

OTTO reduces time wasted and variability with manual material handling by operating on a JIT approach.



ADDRESS LABOR SHORTAGE

At 10% the cost of an FTE, OTTO AMRs enable businesses to address labor shortage and eliminate FTE spend on low value and repetitive work.



ACHIEVE ENTERPRISE SCALE

Unlike other AMR providers, OTTO Motors' customers are able to operate at scale with 1 to 100 robots to optimize productivity.



OPTIMIZE PRODUCTION

OTTO enables flexibility in materials handling and faster product cycles that can ramp up and down based on demand.



IMPROVE SAFETY

OTTO Motors AMRs are uncompromising when it comes to safety with customers reporting a 100% safety rating.

By automating their material handling, customers are reducing costs, increasing safety, and addressing the growing labor shortage. Instead of operators pushing carts or driving forklifts, OTTO AMRs are autonomously delivering materials when and where they are needed.

TRUSTED BY



Amway

CATERPILLAR



Celestica

Danfoss



▶ **24/7**
lights-out
manufacturing
achieved

Industry: Automotive

Outcome: OTTO supports HIROTEC AMERICA's corporate goal of 24 hours, 7 days week lights-out manufacturing

Application: Automating the black oxide process in spare parts production, which involves moving parts from bucket to bucket while they become oxidized and coated

How material moved before OTTO:
Manually with operators

Reasons for implementing OTTO:
Manual, labor intensive processes resulted in inconsistent product quality and inefficient labor usage

Benefits experienced after OTTO:
Improved productivity in spare parts production by reaching a zero-operator process and by manufacturing more consistent and higher-quality parts

**Fortune 500
Consumer
Packaging
Manufacturer**

▶ **\$250,000**
monthly savings
with an ROI of
< 2 years

Industry: Consumer Packaging

Outcome: Dozens of OTTOs complete close to 2 million deliveries annually in 24/7 operation

Application: Finished goods take-away/ empty replenishment & Finished pallets from palletizers to shrink-wrappers

How material moved before OTTO:
Manually with carts and forklifts

Reasons for implementing OTTO:
Facing a labor crisis, difficulties retaining staff and region unable to fulfill 50,000+ open job postings

Benefits experienced after OTTO:
Estimated \$1.8M in benefits each year through savings in labour, avoidance of purchasing new equipment or expanding facility, and by maintaining machine uptime



▶ **97%**
reduction
in cycle time

Industry: Paper Product & Printing

Outcome: "Jobs are now 30 seconds instead of 15 minutes because OTTO allows our labor force to focus on what they were hired to do." – Todd Cober, Vice President

Application: Automating non-linear flow of materials between job processes in cellular manufacturing layout

How material moved before OTTO:
Manually with carts

Reasons for implementing OTTO:
To improve productivity and employee fulfillment

Benefits experienced after OTTO:
Reduced cycle times to 30 seconds by enabling highly skilled technicians to focus on the job at hand and allowing machines to continuously run



▶ **100%**
safety rate,
zero accidents in
16 months since
implementation

Industry: Building Materials

Outcome: OTTO moved 2.5+ million pounds of material with 0 safety incidents, while achieving a 16-month ROI.

Application: Finished product from the end-of-production line to the warehouse; then reloads and brings the empty pallets back

How material moved before OTTO:
Manually with forklifts

Reasons for implementing OTTO:
Needed a flexible solution to transform production to a lean manufacturing model and improve safety.

Benefits experienced after OTTO:
With a 16-month ROI, Sunview achieved a 100% safety rating for the first time, standardized their processes and shifted skilled laborers to higher value-added tasks



Visit www.ottomotors.com or talk to an automation expert at **1-SEE-OTTO** to implement smarter material handling.