Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 84.4%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	66.3%	1,823	2,713	97.8%	88.6%	Optimized
Distribution Center B	Dallas, TX	38.5%	1,547	3,630	99.3%	88.4%	Optimized
Distribution Center C	Atlanta, GA	55.4%	2,332	1,502	99.2%	91.4%	Optimized
Distribution Center D	Los Angeles, CA	63.9%	2,251	2,131	98.1%	89.9%	Optimized
Distribution Center E	Newark, NJ	72.2%	2,819	2,681	96.4%	63.6%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-picking

system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs