Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 83.8%
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	82.3%	1,643	3,270	97.4%	76.1%	Improvement Needed
Distribution Center B	Dallas, TX	87.5%	2,935	2,646	95.5%	65.7%	Improvement Needed
Distribution Center C	Atlanta, GA	42.7%	2,073	1,604	96.5%	94.0%	Optimized
Distribution Center D	Los Angeles, CA	73.1%	2,808	2,444	96.2%	91.0%	Optimized
Distribution Center E	Newark, NJ	99.7%	2,599	3,290	96.6%	92.4%	Optimized

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