Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 76.4%
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	87.9%	1,568	2,700	98.6%	66.4%	Improvement Needed
Distribution Center B	Dallas, TX	62.3%	1,274	2,336	95.5%	91.2%	Optimized
Distribution Center C	Atlanta, GA	38.2%	1,625	3,326	96.8%	76.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.0%	1,374	2,486	98.0%	72.4%	Improvement Needed
Distribution Center E	Newark, NJ	68.3%	1,389	2,502	98.6%	75.9%	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