Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 71.3%
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	69.3%	2,944	2,224	95.1%	89.3%	Optimized
Distribution Center B	Dallas, TX	82.3%	2,895	3,596	99.1%	62.5%	Improvement Needed
Distribution Center C	Atlanta, GA	100.8%	1,361	1,523	96.8%	64.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.7%	2,910	3,223	95.9%	69.3%	Improvement Needed
Distribution Center E	Newark, NJ	78.6%	1,146	2,008	95.3%	70.7%	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