Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 73.7%
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	91.4%	2,540	3,121	95.7%	84.4%	Optimized
Distribution Center B	Dallas, TX	53.3%	1,526	3,474	97.8%	75.3%	Improvement Needed
Distribution Center C	Atlanta, GA	77.8%	1,833	2,586	95.8%	65.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.2%	1,081	1,834	96.9%	76.3%	Improvement Needed
Distribution Center E	Newark, NJ	107.6%	2,004	3,382	99.3%	66.9%	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