Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 77.5%
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	53.7%	2,117	3,998	95.5%	80.8%	Optimized
Distribution Center B	Dallas, TX	67.4%	1,920	3,108	95.1%	92.2%	Optimized
Distribution Center C	Atlanta, GA	67.9%	1,640	1,537	96.3%	65.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	43.3%	1,888	2,064	95.5%	83.4%	Optimized
Distribution Center E	Newark, NJ	121.2%	2,661	3,190	96.4%	65.8%	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