Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 79.8%
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	127.7%	2,377	3,644	96.4%	70.9%	Improvement Needed
Distribution Center B	Dallas, TX	68.6%	1,204	2,264	98.2%	62.6%	Improvement Needed
Distribution Center C	Atlanta, GA	92.0%	2,979	3,283	99.1%	80.7%	Optimized
Distribution Center D	Los Angeles, CA	62.3%	1,553	1,877	98.3%	93.0%	Optimized
Distribution Center E	Newark, NJ	72.7%	1,858	3,976	98.3%	91.8%	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