Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 78.4%
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	45.3%	1,792	2,699	96.2%	94.7%	Optimized
Distribution Center B	Dallas, TX	71.8%	1,224	3,204	99.5%	60.9%	Improvement Needed
Distribution Center C	Atlanta, GA	45.5%	1,472	2,635	96.3%	93.0%	Optimized
Distribution Center D	Los Angeles, CA	72.5%	1,173	3,151	99.0%	81.9%	Optimized
Distribution Center E	Newark, NJ	87.7%	2,540	2,534	98.8%	61.4%	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