Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 83.0%
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	76.4%	2,051	3,437	99.4%	78.5%	Improvement Needed
Distribution Center B	Dallas, TX	60.4%	2,903	3,273	95.1%	80.7%	Optimized
Distribution Center C	Atlanta, GA	93.3%	2,433	3,063	97.4%	88.3%	Optimized
Distribution Center D	Los Angeles, CA	72.4%	2,571	2,540	95.7%	72.4%	Improvement Needed
Distribution Center E	Newark, NJ	49.5%	1,045	2,880	97.1%	94.9%	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