Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 77.0%
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	38.1%	1,243	2,897	96.8%	68.4%	Improvement Needed
Distribution Center B	Dallas, TX	33.2%	1,371	1,571	96.9%	74.2%	Improvement Needed
Distribution Center C	Atlanta, GA	97.3%	1,596	3,322	99.2%	85.4%	Optimized
Distribution Center D	Los Angeles, CA	68.7%	2,362	1,983	98.9%	69.3%	Improvement Needed
Distribution Center E	Newark, NJ	65.4%	1,671	3,592	98.7%	87.6%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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