Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 76.3%
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	60.8%	2,462	2,694	99.1%	75.1%	Improvement Needed
Distribution Center B	Dallas, TX	61.5%	2,246	2,104	97.2%	63.9%	Improvement Needed
Distribution Center C	Atlanta, GA	65.6%	1,522	2,548	98.6%	88.6%	Optimized
Distribution Center D	Los Angeles, CA	100.9%	1,315	2,649	95.0%	82.3%	Optimized
Distribution Center E	Newark, NJ	91.4%	2,678	3,990	97.6%	71.6%	Improvement Needed

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