Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 25
Average Utilization: 77.5%
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	66.9%	2,524	3,254	97.9%	90.6%	Optimized
Distribution Center B	Dallas, TX	88.4%	2,608	1,677	95.6%	64.6%	Improvement Needed
Distribution Center C	Atlanta, GA	85.1%	1,847	1,630	96.2%	79.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.1%	2,620	2,535	96.4%	62.1%	Improvement Needed
Distribution Center E	Newark, NJ	56.2%	1,532	2,044	98.3%	90.2%	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