Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 78.7%
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	90.7%	1,989	1,533	96.5%	69.0%	Improvement Needed
Distribution Center B	Dallas, TX	60.2%	1,120	3,438	99.5%	75.7%	Improvement Needed
Distribution Center C	Atlanta, GA	50.3%	1,848	2,360	96.7%	83.7%	Optimized
Distribution Center D	Los Angeles, CA	95.1%	1,060	3,613	96.9%	92.5%	Optimized
Distribution Center E	Newark, NJ	85.4%	1,686	3,966	95.3%	72.9%	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