Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 76.5%
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	79.5%	2,696	3,281	97.8%	62.6%	Improvement Needed
Distribution Center B	Dallas, TX	60.3%	2,279	2,273	97.2%	83.8%	Optimized
Distribution Center C	Atlanta, GA	41.1%	1,977	3,150	98.3%	77.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.7%	2,514	1,636	96.8%	64.4%	Improvement Needed
Distribution Center E	Newark, NJ	86.3%	1,710	3,688	97.0%	94.9%	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