Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 79
Average Utilization: 76.4%
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	123.1%	1,399	1,525	95.9%	67.0%	Improvement Needed
Distribution Center B	Dallas, TX	67.6%	1,423	2,590	99.0%	73.5%	Improvement Needed
Distribution Center C	Atlanta, GA	134.6%	2,693	1,835	98.6%	66.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	92.8%	2,949	2,993	95.2%	90.2%	Optimized
Distribution Center E	Newark, NJ	34.2%	1,059	3,089	97.8%	84.6%	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