Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 73.5%
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	47.1%	2,352	3,681	97.9%	65.0%	Improvement Needed
Distribution Center B	Dallas, TX	65.7%	2,452	1,710	98.2%	62.9%	Improvement Needed
Distribution Center C	Atlanta, GA	102.0%	1,097	2,944	95.5%	85.1%	Optimized
Distribution Center D	Los Angeles, CA	91.4%	2,728	1,863	99.1%	85.1%	Optimized
Distribution Center E	Newark, NJ	60.7%	1,360	1,668	95.9%	69.4%	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