Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 74.2%
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	126.9%	2,006	2,050	98.9%	83.2%	Optimized
Distribution Center B	Dallas, TX	62.3%	2,396	3,918	95.4%	88.4%	Optimized
Distribution Center C	Atlanta, GA	54.5%	1,853	1,802	96.8%	66.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.7%	1,213	1,834	96.1%	60.3%	Improvement Needed
Distribution Center E	Newark, NJ	74.0%	2,543	3,395	95.8%	72.6%	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