Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 76.1%
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	71.6%	1,499	3,707	96.9%	81.1%	Optimized
Distribution Center B	Dallas, TX	37.3%	1,576	3,761	96.7%	64.2%	Improvement Needed
Distribution Center C	Atlanta, GA	95.3%	1,122	2,369	98.1%	68.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	98.9%	2,187	2,499	99.4%	94.8%	Optimized
Distribution Center E	Newark, NJ	78.6%	1,132	2,272	95.9%	72.2%	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