Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 78.8%
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	41.4%	1,360	2,192	96.4%	84.9%	Optimized
Distribution Center B	Dallas, TX	88.3%	1,051	3,849	98.1%	76.3%	Improvement Needed
Distribution Center C	Atlanta, GA	58.5%	2,306	1,931	95.5%	66.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.3%	2,185	3,736	98.4%	77.4%	Improvement Needed
Distribution Center E	Newark, NJ	42.7%	2,016	2,844	98.8%	88.9%	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