Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 75.9%
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	69.6%	1,093	2,242	98.7%	80.0%	Optimized
Distribution Center B	Dallas, TX	50.7%	1,116	2,636	96.8%	77.6%	Improvement Needed
Distribution Center C	Atlanta, GA	119.7%	2,717	3,321	96.3%	89.2%	Optimized
Distribution Center D	Los Angeles, CA	70.4%	1,849	2,692	98.0%	71.2%	Improvement Needed
Distribution Center E	Newark, NJ	96.0%	2,541	1,955	95.6%	61.3%	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