Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 69.2%
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	90.5%	1,751	3,953	98.0%	79.8%	Improvement Needed
Distribution Center B	Dallas, TX	84.3%	2,831	3,282	96.0%	66.3%	Improvement Needed
Distribution Center C	Atlanta, GA	48.2%	1,534	3,753	96.0%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.1%	1,145	3,129	95.8%	71.5%	Improvement Needed
Distribution Center E	Newark, NJ	71.1%	1,064	2,192	95.7%	66.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput

by 20%

- Implement 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