Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 71.8%
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	83.0%	2,393	1,843	96.7%	73.4%	Improvement Needed
Distribution Center B	Dallas, TX	89.3%	2,094	1,628	95.2%	73.8%	Improvement Needed
Distribution Center C	Atlanta, GA	71.0%	1,451	3,257	99.5%	75.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	45.0%	1,192	3,346	97.8%	69.1%	Improvement Needed
Distribution Center E	Newark, NJ	80.2%	1,342	1,789	96.2%	67.7%	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