Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 70.7%
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	65.3%	2,454	1,729	96.6%	80.4%	Optimized
Distribution Center B	Dallas, TX	45.0%	2,952	2,038	97.5%	78.3%	Improvement Needed
Distribution Center C	Atlanta, GA	82.2%	1,504	2,591	96.1%	61.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.8%	1,011	2,270	95.9%	60.2%	Improvement Needed
Distribution Center E	Newark, NJ	86.3%	2,184	3,763	96.0%	73.3%	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