Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 87.0%
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	66.1%	2,566	2,095	96.2%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	44.0%	2,045	3,629	95.1%	92.4%	Optimized
Distribution Center C	Atlanta, GA	35.6%	1,330	2,450	97.4%	85.1%	Optimized
Distribution Center D	Los Angeles, CA	47.9%	1,078	1,789	95.6%	83.8%	Optimized
Distribution Center E	Newark, NJ	62.1%	2,945	1,634	98.4%	94.2%	Optimized

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