Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 75.2%
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	67.2%	1,174	2,187	97.5%	75.2%	Improvement Needed
Distribution Center B	Dallas, TX	128.4%	1,534	3,305	97.3%	88.4%	Optimized
Distribution Center C	Atlanta, GA	87.0%	2,819	1,706	96.3%	62.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	82.8%	1,969	3,978	98.3%	78.5%	Improvement Needed
Distribution Center E	Newark, NJ	114.8%	1,347	1,577	95.7%	71.1%	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