Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 73
Average Utilization: 79.1%
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	34.0%	1,889	2,046	98.5%	71.2%	Improvement Needed
Distribution Center B	Dallas, TX	63.1%	1,625	1,814	99.3%	79.3%	Improvement Needed
Distribution Center C	Atlanta, GA	67.0%	2,174	1,609	96.5%	88.1%	Optimized
Distribution Center D	Los Angeles, CA	105.4%	2,817	2,229	95.9%	88.8%	Optimized
Distribution Center E	Newark, NJ	47.7%	2,804	1,913	98.6%	68.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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