Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
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	58.1%	1,056	1,971	97.6%	62.4%	Improvement Needed
Distribution Center B	Dallas, TX	54.7%	2,571	3,325	95.7%	94.7%	Optimized
Distribution Center C	Atlanta, GA	50.1%	1,929	2,873	98.8%	67.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.2%	2,336	3,145	99.1%	92.6%	Optimized
Distribution Center E	Newark, NJ	66.9%	2,522	2,821	95.6%	78.8%	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