Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 76.1%
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	50.2%	2,638	1,505	99.0%	61.3%	Improvement Needed
Distribution Center B	Dallas, TX	57.5%	1,521	1,664	97.6%	89.8%	Optimized
Distribution Center C	Atlanta, GA	102.2%	1,367	1,901	98.3%	69.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.5%	2,153	3,753	98.6%	81.9%	Optimized
Distribution Center E	Newark, NJ	78.0%	1,774	3,218	96.3%	78.5%	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