Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 75.9%
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	43.1%	1,686	2,530	97.7%	72.2%	Improvement Needed
Distribution Center B	Dallas, TX	56.4%	1,862	2,969	96.8%	80.5%	Optimized
Distribution Center C	Atlanta, GA	86.0%	1,199	3,684	98.9%	88.3%	Optimized
Distribution Center D	Los Angeles, CA	67.1%	2,121	1,953	99.3%	62.5%	Improvement Needed
Distribution Center E	Newark, NJ	46.6%	1,127	1,575	96.5%	76.0%	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