Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 74.7%
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	70.4%	2,781	1,549	98.5%	71.3%	Improvement Needed
Distribution Center B	Dallas, TX	57.1%	1,112	3,137	96.2%	80.5%	Optimized
Distribution Center C	Atlanta, GA	131.9%	2,479	3,237	95.1%	92.9%	Optimized
Distribution Center D	Los Angeles, CA	46.9%	1,537	2,622	95.2%	65.2%	Improvement Needed
Distribution Center E	Newark, NJ	65.9%	2,609	3,583	98.3%	63.5%	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