Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 74.6%
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	57.5%	1,966	3,869	98.1%	67.0%	Improvement Needed
Distribution Center B	Dallas, TX	73.7%	1,681	3,608	96.7%	64.8%	Improvement Needed
Distribution Center C	Atlanta, GA	53.6%	2,454	2,888	96.6%	88.8%	Optimized
Distribution Center D	Los Angeles, CA	34.4%	1,508	2,328	98.0%	69.5%	Improvement Needed
Distribution Center E	Newark, NJ	69.3%	1,640	2,767	99.1%	82.8%	Optimized

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