Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 79.8%
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	47.7%	1,098	2,978	98.6%	74.9%	Improvement Needed
Distribution Center B	Dallas, TX	49.0%	2,174	2,339	97.4%	74.8%	Improvement Needed
Distribution Center C	Atlanta, GA	92.1%	1,610	3,438	97.7%	70.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.2%	2,593	3,452	97.5%	88.1%	Optimized
Distribution Center E	Newark, NJ	55.9%	1,265	3,390	99.4%	90.6%	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