Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 73.3%
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	35.8%	1,411	3,465	95.2%	90.1%	Optimized
Distribution Center B	Dallas, TX	43.5%	2,835	1,726	96.6%	66.7%	Improvement Needed
Distribution Center C	Atlanta, GA	77.6%	2,544	1,593	96.1%	62.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.1%	1,289	2,652	97.0%	87.1%	Optimized
Distribution Center E	Newark, NJ	70.5%	1,418	1,831	99.4%	60.1%	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