Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 76.5%
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	42.2%	2,197	2,801	99.3%	87.9%	Optimized
Distribution Center B	Dallas, TX	36.2%	1,790	2,493	97.2%	62.7%	Improvement Needed
Distribution Center C	Atlanta, GA	47.6%	1,254	3,129	99.5%	68.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.4%	1,172	3,551	98.6%	70.1%	Improvement Needed
Distribution Center E	Newark, NJ	67.4%	2,821	2,005	95.2%	94.1%	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