Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 76.3%
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	80.3%	2,681	3,737	95.1%	90.2%	Optimized
Distribution Center B	Dallas, TX	53.4%	2,884	2,151	95.1%	77.8%	Improvement Needed
Distribution Center C	Atlanta, GA	54.2%	2,324	2,052	99.1%	69.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	105.0%	1,859	3,398	98.5%	60.8%	Improvement Needed
Distribution Center E	Newark, NJ	62.9%	1,314	2,037	96.8%	83.4%	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