Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 76.8%
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	47.2%	2,723	3,737	97.4%	91.3%	Optimized
Distribution Center B	Dallas, TX	81.7%	1,683	2,013	97.2%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	62.8%	2,591	2,205	99.3%	86.7%	Optimized
Distribution Center D	Los Angeles, CA	68.9%	2,583	2,093	96.9%	68.2%	Improvement Needed
Distribution Center E	Newark, NJ	40.0%	2,595	2,729	99.1%	63.0%	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