Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 75.3%
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	57.2%	1,971	3,979	98.5%	75.9%	Improvement Needed
Distribution Center B	Dallas, TX	138.4%	1,758	3,788	98.3%	70.7%	Improvement Needed
Distribution Center C	Atlanta, GA	40.3%	2,362	2,674	95.4%	82.4%	Optimized
Distribution Center D	Los Angeles, CA	39.3%	2,608	1,533	95.4%	81.9%	Optimized
Distribution Center E	Newark, NJ	95.5%	1,115	3,198	98.1%	65.8%	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