Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 75.2%
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	39.4%	1,641	2,564	99.3%	80.9%	Optimized
Distribution Center B	Dallas, TX	88.7%	2,435	3,742	96.5%	65.2%	Improvement Needed
Distribution Center C	Atlanta, GA	73.1%	2,492	3,947	97.6%	93.3%	Optimized
Distribution Center D	Los Angeles, CA	39.4%	2,982	3,665	97.4%	69.5%	Improvement Needed
Distribution Center E	Newark, NJ	83.1%	1,753	3,162	99.0%	67.3%	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