Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 74.5%
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	65.9%	2,209	2,611	96.9%	86.2%	Optimized
Distribution Center B	Dallas, TX	89.8%	1,319	1,865	97.4%	61.0%	Improvement Needed
Distribution Center C	Atlanta, GA	44.2%	1,728	3,747	96.8%	80.8%	Optimized
Distribution Center D	Los Angeles, CA	44.0%	1,927	2,758	99.2%	72.2%	Improvement Needed
Distribution Center E	Newark, NJ	100.3%	1,720	1,619	97.4%	72.6%	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