Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 73.4%
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	52.3%	2,310	2,167	97.0%	86.4%	Optimized
Distribution Center B	Dallas, TX	73.0%	1,860	2,055	96.3%	83.0%	Optimized
Distribution Center C	Atlanta, GA	57.3%	1,319	1,975	99.0%	71.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.6%	2,739	2,623	97.3%	63.0%	Improvement Needed
Distribution Center E	Newark, NJ	49.9%	2,469	3,138	97.7%	63.2%	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