Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 84.2%
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	42.4%	1,806	2,610	98.1%	80.1%	Optimized
Distribution Center B	Dallas, TX	94.6%	1,273	3,947	95.1%	95.0%	Optimized
Distribution Center C	Atlanta, GA	50.1%	1,955	1,881	95.5%	85.1%	Optimized
Distribution Center D	Los Angeles, CA	58.3%	1,210	3,955	99.5%	93.1%	Optimized
Distribution Center E	Newark, NJ	44.5%	2,864	3,696	96.8%	67.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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