Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 80.1%
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	86.0%	1,677	2,741	99.2%	90.7%	Optimized
Distribution Center B	Dallas, TX	71.1%	1,163	3,693	99.4%	82.5%	Optimized
Distribution Center C	Atlanta, GA	100.7%	2,334	1,721	96.8%	76.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.4%	2,690	3,325	98.8%	86.2%	Optimized
Distribution Center E	Newark, NJ	54.0%	1,520	1,779	95.8%	64.0%	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