Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 76.4%
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	86.2%	1,020	2,132	98.4%	80.8%	Optimized
Distribution Center B	Dallas, TX	58.6%	2,959	2,384	95.4%	83.4%	Optimized
Distribution Center C	Atlanta, GA	111.1%	2,639	3,478	95.9%	87.5%	Optimized
Distribution Center D	Los Angeles, CA	69.4%	1,910	2,838	96.8%	66.6%	Improvement Needed
Distribution Center E	Newark, NJ	58.4%	2,673	2,724	98.7%	63.7%	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