Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 81.1%
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	44.6%	1,662	2,598	96.8%	92.9%	Optimized
Distribution Center B	Dallas, TX	84.3%	2,742	2,575	96.5%	78.9%	Improvement Needed
Distribution Center C	Atlanta, GA	32.3%	1,842	1,809	96.0%	80.8%	Optimized
Distribution Center D	Los Angeles, CA	123.1%	2,733	2,275	95.5%	66.3%	Improvement Needed
Distribution Center E	Newark, NJ	58.1%	2,895	2,372	97.6%	86.7%	Optimized

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