Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 76.5%
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	117.9%	1,308	2,582	99.3%	84.9%	Optimized
Distribution Center B	Dallas, TX	42.9%	1,743	2,410	99.2%	82.2%	Optimized
Distribution Center C	Atlanta, GA	40.8%	2,986	1,854	95.2%	75.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	39.4%	1,692	1,630	96.0%	77.9%	Improvement Needed
Distribution Center E	Newark, NJ	100.7%	2,202	2,339	96.2%	61.5%	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