Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 78.9%
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	73.6%	2,547	3,156	98.4%	82.7%	Optimized
Distribution Center B	Dallas, TX	82.7%	1,714	2,006	97.0%	82.8%	Optimized
Distribution Center C	Atlanta, GA	74.7%	1,768	3,850	96.5%	90.9%	Optimized
Distribution Center D	Los Angeles, CA	62.1%	2,147	2,562	97.1%	64.8%	Improvement Needed
Distribution Center E	Newark, NJ	52.1%	2,018	3,150	95.5%	73.4%	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