Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 80.2%
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	49.6%	2,941	3,214	95.8%	75.0%	Improvement Needed
Distribution Center B	Dallas, TX	70.1%	1,089	1,727	97.5%	93.2%	Optimized
Distribution Center C	Atlanta, GA	117.2%	2,632	2,491	96.0%	79.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	35.1%	2,568	1,952	96.8%	66.2%	Improvement Needed
Distribution Center E	Newark, NJ	75.0%	1,478	2,642	97.2%	86.8%	Optimized

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