Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 76.9%
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	51.9%	1,590	3,427	95.1%	79.4%	Improvement Needed
Distribution Center B	Dallas, TX	54.8%	2,590	3,614	97.6%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	95.8%	1,672	3,464	98.2%	84.0%	Optimized
Distribution Center D	Los Angeles, CA	102.9%	1,028	3,453	97.5%	65.4%	Improvement Needed
Distribution Center E	Newark, NJ	61.7%	2,522	2,827	98.6%	82.9%	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