Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
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	78.5%	1,835	1,903	96.5%	65.2%	Improvement Needed
Distribution Center B	Dallas, TX	67.8%	1,453	3,304	96.8%	88.7%	Optimized
Distribution Center C	Atlanta, GA	75.5%	1,926	3,969	95.1%	68.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.6%	1,341	3,197	96.1%	78.1%	Improvement Needed
Distribution Center E	Newark, NJ	81.1%	2,246	2,980	98.6%	94.5%	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