Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 74.9%
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	79.9%	1,652	1,538	96.6%	75.4%	Improvement Needed
Distribution Center B	Dallas, TX	54.0%	2,639	2,813	98.7%	89.6%	Optimized
Distribution Center C	Atlanta, GA	66.9%	2,773	3,866	96.6%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	97.5%	1,983	2,137	95.8%	81.6%	Optimized
Distribution Center E	Newark, NJ	67.6%	2,064	2,704	99.1%	66.5%	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