Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 78.8%
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	98.7%	2,167	2,805	95.6%	93.3%	Optimized
Distribution Center B	Dallas, TX	53.9%	2,430	3,227	99.0%	64.7%	Improvement Needed
Distribution Center C	Atlanta, GA	101.8%	1,177	3,607	95.7%	93.2%	Optimized
Distribution Center D	Los Angeles, CA	41.9%	1,951	3,031	95.0%	73.3%	Improvement Needed
Distribution Center E	Newark, NJ	46.1%	2,502	3,497	97.3%	69.2%	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